

VTRDate: **January 13, 1992**Subject: **NEW AUDIO ALIGNMENT TAPES**Model: **SVO-960**Serial No: **10,001 AND HIGHER****DESCRIPTION**

New, more reliable alignment tapes are now available.
The former and new part numbers are listed below.

Former		New
JVC-MH-1 Alignment Tape H-7099-046-H	➡	KVR-31NS Alignment Tape 8-192-603-11
Hi-Fi Alignment Tape H-7099-153-H		KRV-35NF Alignment Tape 8-192-603-56

Blank tape for performing accurate self record/playback
levels is also available:

GR-120KG Blank Tape
8-896-024-94

Camera

Date: **January 13, 1992**

Subject: **PART REGISTRATION—
 ROTARY SWITCHES**

Model: **DXC-107**

Serial No: **10,001 AND HIGHER**

DESCRIPTION

Replacement parts are now available for the rotary switches on the FC-44 board. Correct the DXC-107 Service Manual as shown in Figure 1.

ELECTRICAL PARTS LIST FC-44 BOARD PAGE D-8				
	No.	Part No.	SP	Description
ADD ➡	S401	1-572-464-11	s	SWITCH, ROTARY
	S402	1-572-464-11	s	SWITCH, ROTARY
	S403	1-572-464-11	s	SWITCH, ROTARY
	S404	1-572-464-11	s	SWITCH, ROTARY
	S405	1-572-456-11	s	SWITCH, ROTARY

Figure 1

VTR

Date: January 13, 1992

Model: EVO-9700

Serial No: ALL

Subject: **IMPROVED PERFORMANCE
WITH HI8 ME TAPE****DESCRIPTION**

Firmware designed specifically to protect Hi8™ ME tape during Pause mode is now available.

PROGRAM IMPROVEMENTS

- When Hi8 ME tape is used, the unit will now automatically enter Stop mode after five minutes in Pause mode. (Previously, tape was forwarded one frame after seven minutes in Pause mode and then set back into Pause mode. After one hour the unit would enter Stop mode.)

PARTS REQUIRED

Part No.	Description	Qty.
8-759-048-71	LH535973 (IC6/MC46)	1

INSTALLATION

To install the new firmware, replace IC006 on the MC-46 board (zone I-3) with the new EPROM.

CAUTION: EPROMs are easily damaged by static electricity. During installation, ensure that the equipment is powered OFF and you are grounded to the unit with a cable that contains a 1MΩ resistor between you and GND. Work with caution when grounded to the unit.

CONFIRMATION

After system startup, verify that the unit works properly.

DisplayDate: **January 13, 1992**Subject: **CLEANING JUMBOTRON SCREEN**Model: **JTU-8A/8B/1516**Serial No: **ALL****DESCRIPTION**

When brightness of the JumboTron display unit is decreased by 25% due to dirt on the front surface, clean the unit in the following manner.

NOTE: To verify brightness, use a lux meter on both a dirty and a clean cell.

1. Turn the screen off and let the units cool for a few hours.
2. Using a neutral detergent that is safe for use on plastic, fill a bucket with room temperature water and the mild soapy detergent. Follow instructions with detergent regarding mixture quantities.

3. Wet a rag with the detergent solution and wring until it is just moist.
4. Carefully wipe any dirt from the front of the display unit. Use your finger or a stick behind the rag to fully clean the entire pixel area. Take care to clean the corners of each pixel as well as the top and bottom surface of the louvers. Rinse the rag often so that it is kept clean.
5. Let the screen air dry for at least 24 hours before using it again. If possible, turn on the ventilation fans before use. Visually inspect the screen for any residual water.

IMPORTANT: Do not use the screen again until it is completely dry.

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Camera

Date: **January 13, 1992**

Subject: **PART REGISTRATION—
STOPPER PLATE AND LID**

Model: **DXC-325, DXF-325**

Serial No: **ALL**

DESCRIPTION

The stopper plate and lid are now available as replacement parts. Correct the DXF-325 Service Manual, Vol. 2 as shown in Figure 1.

NOTE: The DXF-325 Service Manual is included in the DXC-325 Service Manual.

D-3. EXPLODED VIEW
PAGE D-3/D-4

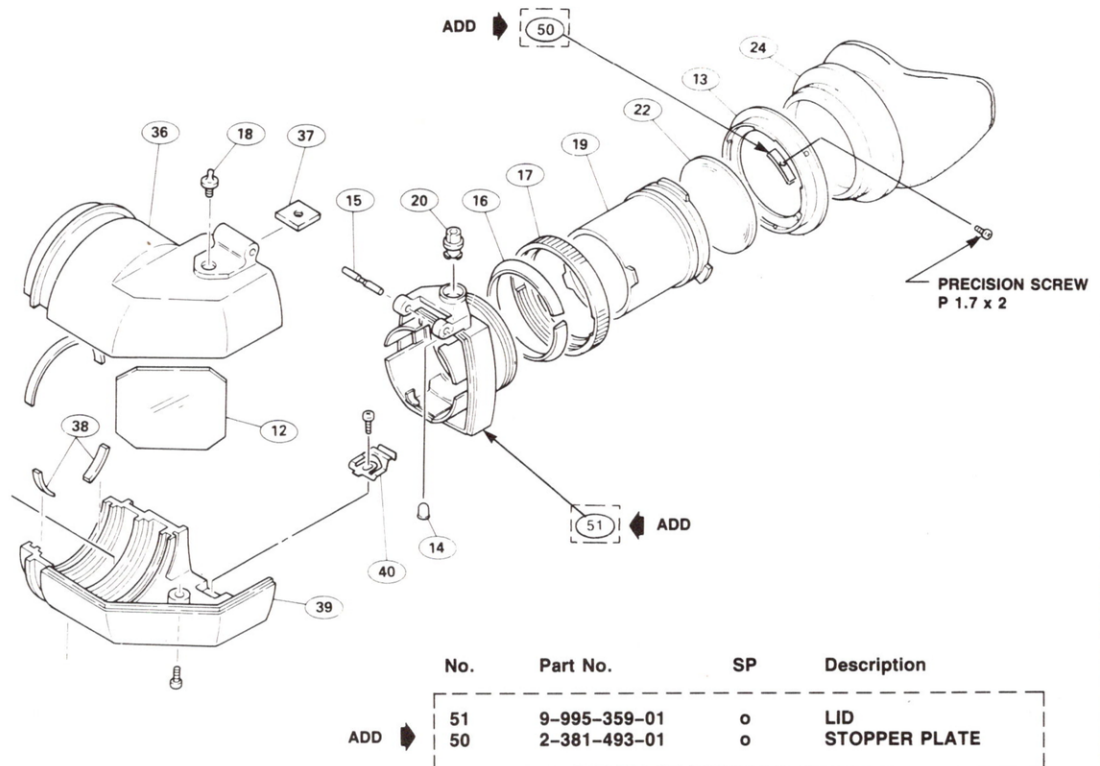


Figure 1

Videodisc

Date: **January 13, 1992**

Subject: **SPINDLE DRIVE TRANSISTOR UPDATE**

Model: **LDP-1450**

Serial No: **ALL**

DESCRIPTION

Components on the MB-40 board can be revised to avoid failure during frequent searching of a 12 inch CLV disc. Perform the following modification procedure to update the MB-40 board.

PARTS REQUIRED

Part No.	Description	Qty.
8-729-201-54	Transistor, 2SC2562, (Q459)	1
8-729-900-36	Transistor, DTC124ES, (Q406)	1
1-216-079-00	Resistor, Metal, 18k Ω , 5%, (R423)	1
1-216-067-00	Resistor, Metal, 5.6k Ω , 5%, (R424)	1
8-719-911-19	Diode, 1SS119, (D454, D455)	2

MODIFICATION PROCEDURE

MB-40 Board (See Figures 1 and 2)

1. Replace Q459 with 2SC2562 transistor.
2. Replace R423 with 18k Ω resistor.
3. Replace R424 with 5600 Ω resistor.
4. Replace the D454 dual diode with two separate 1SS119 diodes. IMPORTANT: Note change of polarity.
5. Solder DTC124ES transistor (Q406) with emitter to GND, base to IC453-9 and collector to D454.

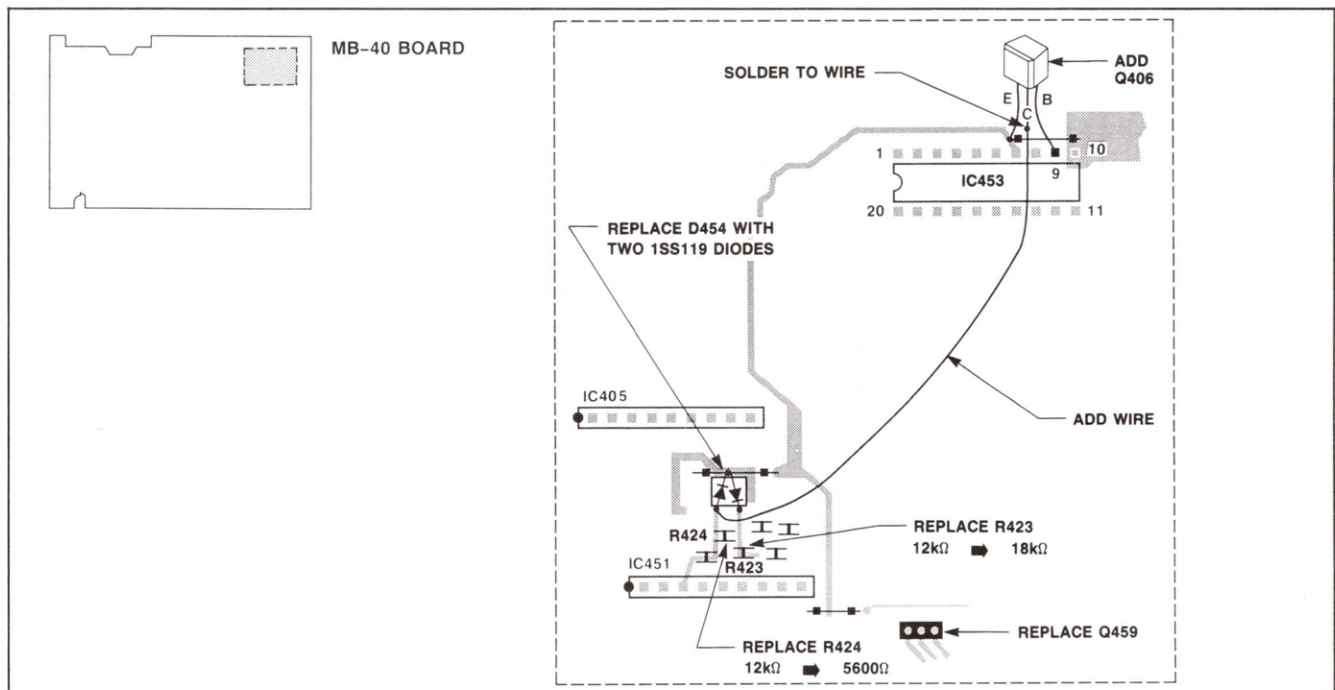


Figure 1

MB-40 BOARD

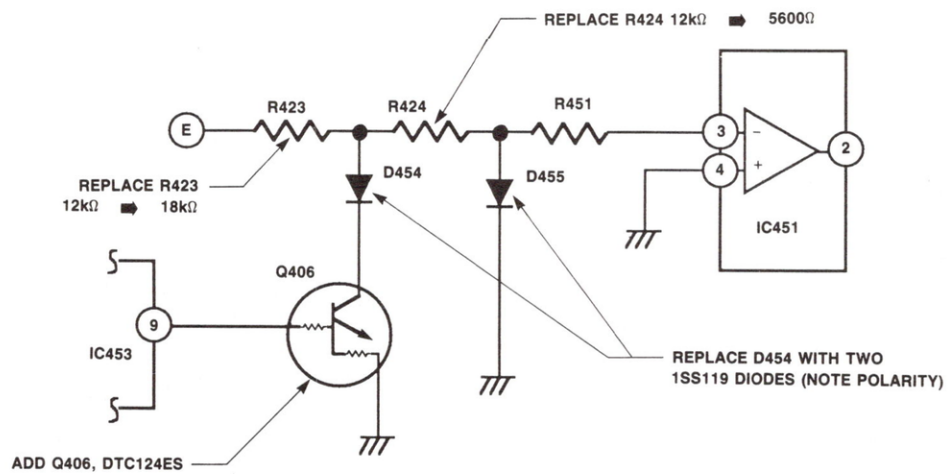


Figure 2

Videodisc

Date: **March 9, 1992**

Subject: **BULLETIN CORRECTION**

Model: **LDP-1450**

Serial No: **ALL**

DESCRIPTION

The MB-40 board modification procedure provided in Technical Bulletin 92-007 is inappropriate, and the bulletin should be discarded.

Refer to Technical Bulletin 91-172 for the applicable modification information.

Camera

Date: **January 13, 1992**

Subject: **WHITE BALANCE OR COLOR
 REPRODUCTION ERROR**

Model: **DXC-750/750MD/755/760MD**

Serial No: **ALL**

DESCRIPTION

If color reproduction is inadequate or white balance cannot be achieved, perform the following modification procedure.

MODIFICATION PROCEDURE

1. Shoot a pattern box and focus.
2. Adjust the iris so that brightness approximates 80%. (A pattern is not required for this adjustment).
3. Use a monitor to verify the red, green and blue channel signals at the camera control unit rear panel.
4. A balanced channel will show the proper pattern, as shown in Figure 1. An imbalanced channel will show a sweeping blur at the right edge of the pattern. If any or all of the red, green or blue channels show a blur, then proceed with steps 5 through 9.
5. Loosen the setscrews of the camera head chassis. (See Figure 2.)
6. Remove additional screws as needed to expose the solder side of the TG-108 board (DXC-755/760MD) or the TG-33 board (DXC-750/750MD).
7. Resolder IC2 on the TG-33/108 board, zone B2. (Caution: Be careful not to create a solder bridge.)
8. Reposition boards in camera head chassis and tighten screws.

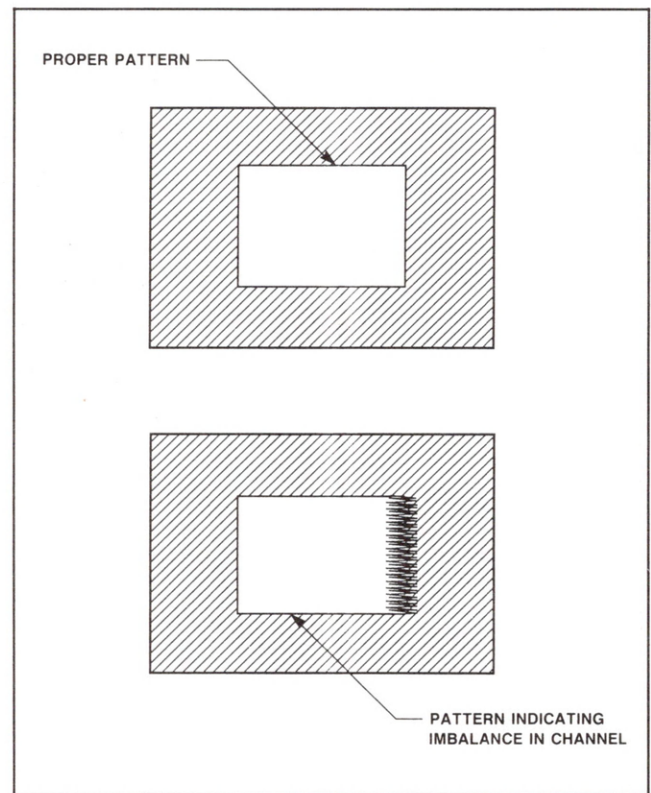


Figure 1

CAMERA HEAD UNIT

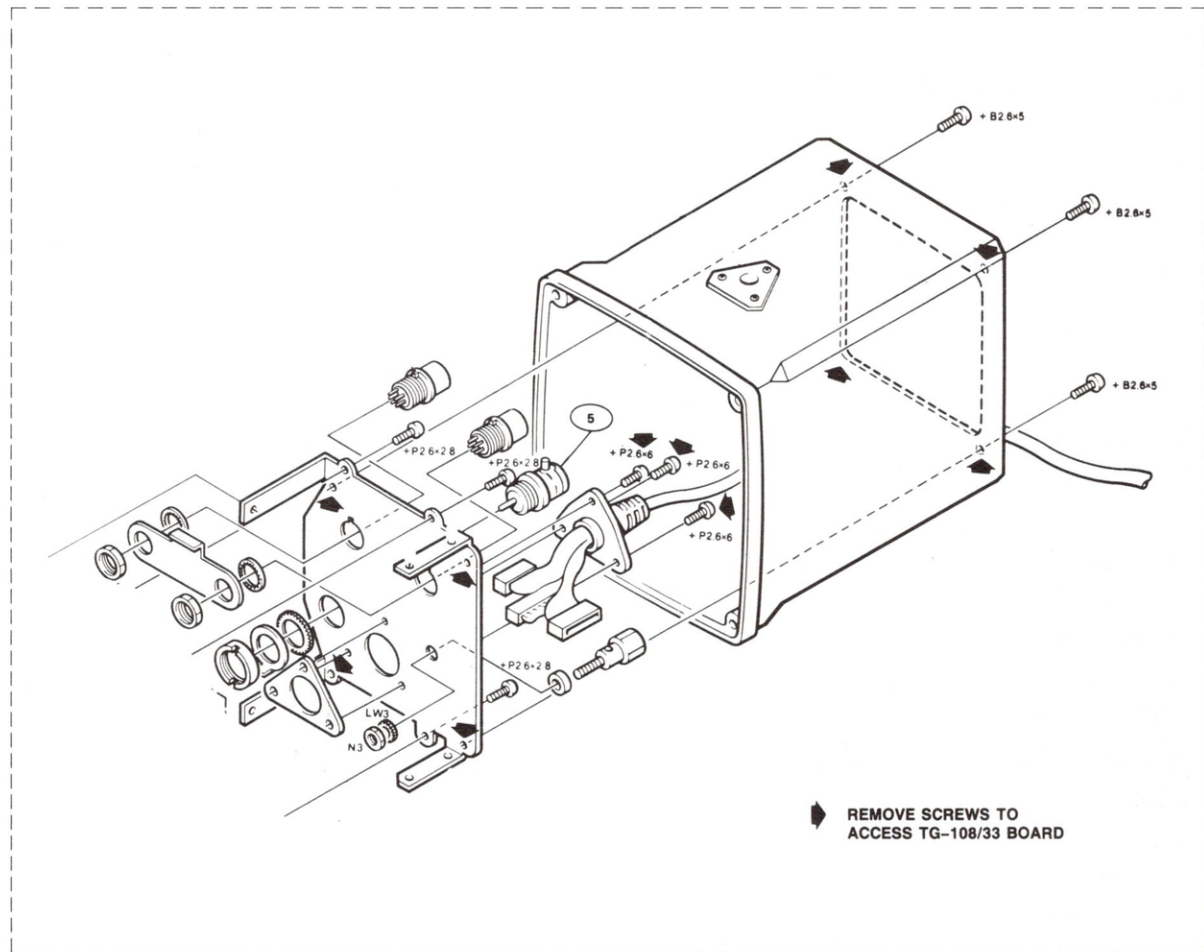


Figure 2

Display

Date: **February 10, 1992**

Subject: **MANUAL CORRECTION—DIP SWITCH
 PART NUMBER**

Model: **JTM-2A/2B**

Serial No: **ALL**

DESCRIPTION

The replacement part for DIP switches on the SD board has been changed. Add this information to the JTM-2A and 2B Service Manual as shown in Figure 1.

**PARTS LIST
 SD BOARD
 PAGE 48**

Ref. No.	Parts No.	Description
SW1	1-570-727-11	DIP SWITCH
SW2	1-570-727-11	DIP SWITCH
SW3	1-570-727-11	DIP SWITCH
	↓	
	1-553-933-00	
	1-553-933-00	
	1-553-933-00	

Figure 1

VTR

Date: February 10, 1992

Subject: VO-26 AND YC-43 MOUNTED CIRCUIT BOARD CHANGE

Model: SVO-960

Serial No: 10,001 – 15,700

DESCRIPTION

The VO-26 and YC-43 mounted circuit boards have been improved to include chroma noise reduction. In the event of replacement, both boards must be changed simultaneously as shown in Figure 1.



Figure 1

Video Conferencing
Date: February 10, 1992
**Subject: MANUAL CORRECTION—MODE
SWITCH ASSIGNMENTS WITH V2.7
FIRMWARE**
Model: PCS-U3010
Serial No: 10,120 AND HIGHER
DESCRIPTION

Table 1 clarifies the operations of the PCS-U3010 with version 2.7 firmware. This table replaces Table 3-4-1 on page 3-2 of the PCS-U3010 Service Manual.

Table 1

S2				S3	S4
Mode	Connected Device				
Switch Position	Motor Driven Pan/Tilt Head	Camera	Remarks	Operation Mode	Operation Mode
1	None	DXC-3xx w/Fujinon Lens			
2-5	Reserved				
6	All	All		Pan (L)	Pan (R)
7	All	All		Tilt (U)	Tilt (D)
8	All	All		Zoom (In)	Zoom (Out)
9	All	All		Focus (Far)	Focus (Near)
A	Hardware Diagnostics				
B	Hardware Diagnostics				
C	PCS-C121		DXC-107		
D	PCS-C120		PCS-C120		
E	PTH-30S1	DXC-3xx	PCS-U3010		
F	Siemens	DXC-3xx	PCS-U3000		

Display

Date: **February 10, 1992**Subject: **MANUAL ADDITION—TRANSISTOR
PART NUMBERS**Model: **JTU-1516**Serial No: **ALL****DESCRIPTION**

Replacement parts for the 2SC1623-L5L6 on the D board (Q125, 225, 325, and 425) are now available. Add this information to the JTU-1516 Service Manual as shown in Figure 1.

PARTS LIST
D BOARD
PAGE 72-74

	Ref. No.	Parts No.	Description
ADD ➡	Q125	8-729-120-28	2SC1623-L5L6
	Q225	8-729-120-28	2SC1623-L5L6
	Q325	8-729-120-28	2SC1623-L5L6
	Q425	8-729-120-28	2SC1623-L5L6

Figure 1

Camera

Date: **February 10, 1992**

Subject: **ELIMINATING H JITTER**

Model: **DXC-537**

Serial No: **SEE TEXT**

DESCRIPTION

An improper phase relationship between the TG drive clock and the HD signal may sometimes occur, resulting in the distortion of the vertical lines.

To correct this, solder a 22pF capacitor in parallel to C86 on the EN-95 board as shown in Figure 1.

PARTS REQUIRED

Part No.	Description	Qty.
1-163-235-11	Capacitor, Ceramic, 22pF	1

The affected models are as follows:

10,001—11,099	11,648—11,710
11,101—11,120	11,732
11,122—11,123	11,734—11,735
11,125	11,741—11,748
11,129	11,762
11,131—11,646	11,800

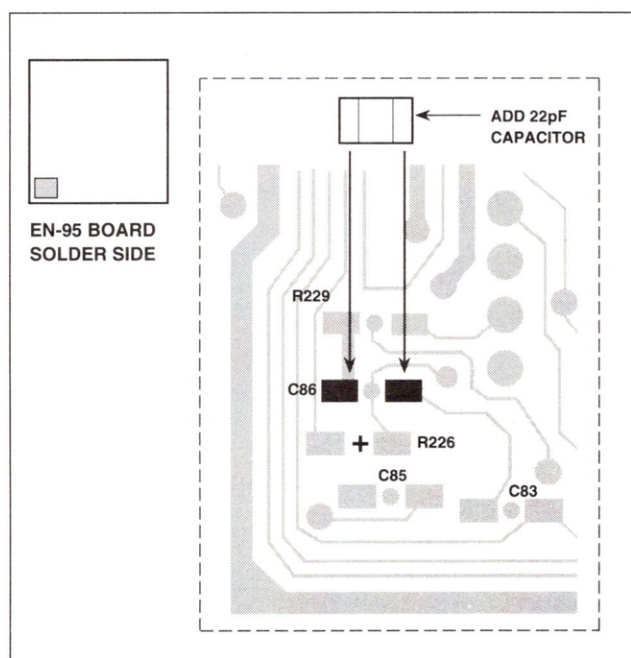


Figure 1

CameraDate: **February 10, 1992**Model: **DXC-3000/3000A**Serial No: **ALL**Subject: **SHIELD CASE ASSEMBLY FOR NEW
TG-18 MOUNTED CIRCUIT BOARD****DESCRIPTION**

The part number for the TG-18 mounted circuit board has been changed as follows:

Former		New
A-7513-335-A	→	A-7513-335-B

When ordering the new board, be sure to also order TG shield case assembly X-3699-010-1.

Peripheral

Date: **February 10, 1992**

Model: **MMV-5002V**

Serial No: **A001 – A020**

Subject: **YMD-VPS3 SCHEMATIC CORRECTION,
RECORD CURRENT MODIFICATION**

DESCRIPTION

1. Correct the MMV-5002V Service Manual, Volume 3, 2nd Edition, as shown in Figure 1.
2. If the upper drum is replaced or there is HiFi muting noise during SECAM mode, modify the YMD-VPS3 board by changing the value of R503 from 680Ω to 1000Ω, as shown in Figure 2. Units

with serial numbers A021 and higher have been factory modified.

PARTS REQUIRED

Part No.	Description	Qty.
1-249-417-11	Res, Carbon, 1000Ω, 1/6W	1

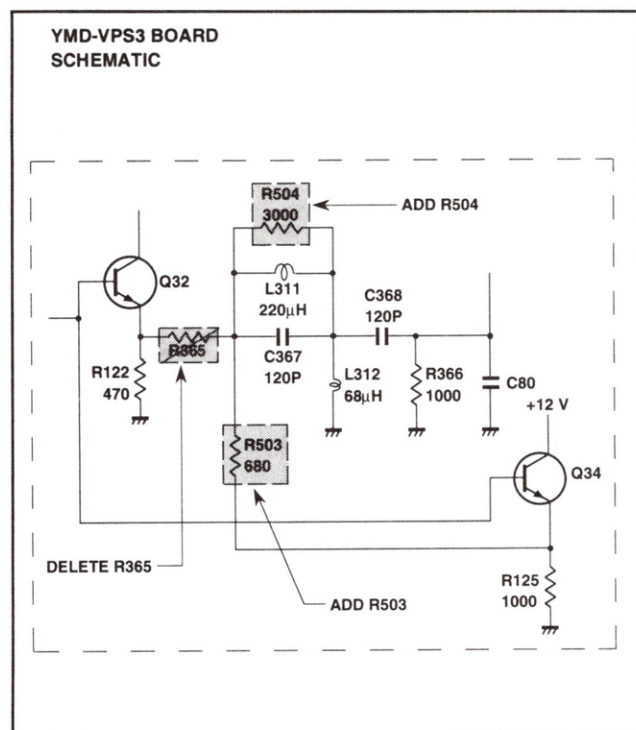


Figure 1

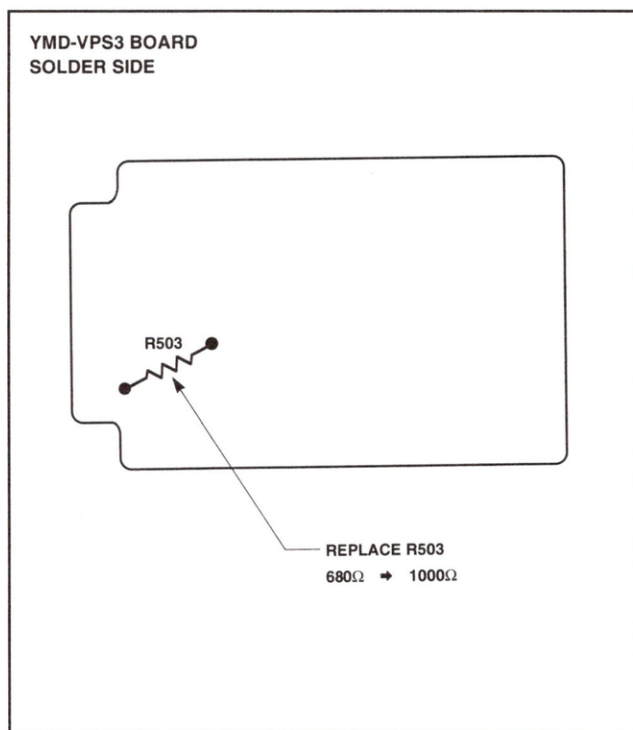


Figure 2

Camera

Date: **February 10, 1992**

Subject: **GAMMA COLOR BALANCE**

Model: **DXC-755/760MD**

Serial No: **10,001-10,100 (DXC-755)**
10,001-10,150 (DXC-760MD)

DESCRIPTION

Gamma color balance may not have been adjusted correctly at the factory (unwanted color may be present in the picture). To correct this, perform the following adjustment procedure.

ADJUSTMENT PROCEDURE

1. Perform auto black balance. Shoot the gray scale chart and adjust the lens iris to 100% white. Perform auto white balance.
2. Adjust GAMMA balance, as described in sections 4-5-7, 4-5-8 and 4-5-9 of DXC-755 Service Manual.
3. Adjust cross point level of green channel, as described in sections 4-5-10 and 4-5-2.
4. Turn master pedestal VR fully counterclockwise (inside front door of CCU). Turn RV22 (zone D-5) and RV23 (zone E-7) on the PR-162 board so that carrier at BVS OUT is minimum level. (See Figures 1 and 2.)

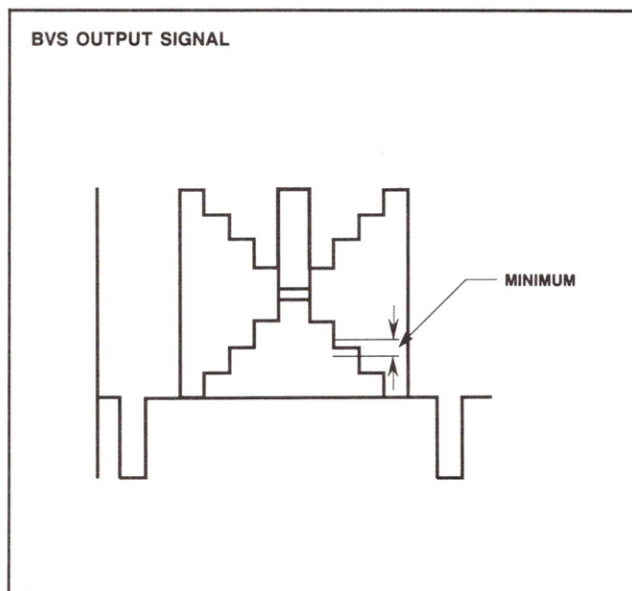


Figure 2

PR-162 BOARD COMPONENT SIDE

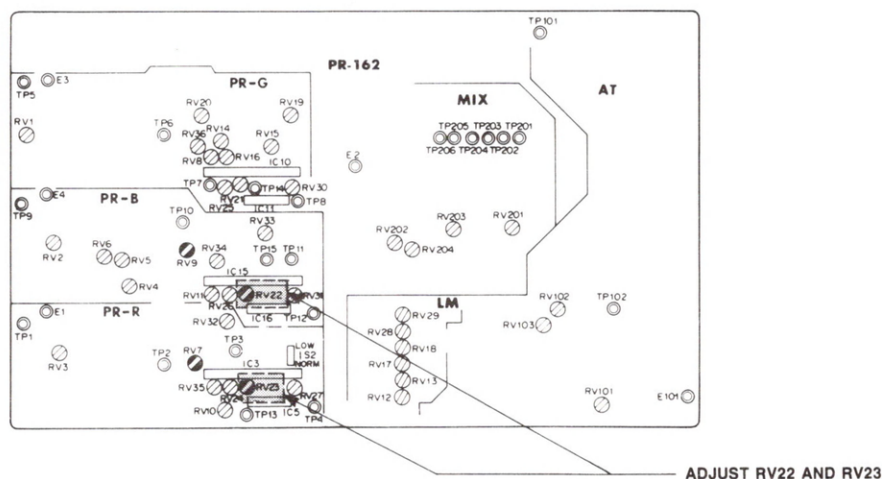


Figure 1

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Display

Date: **February 10, 1992**

Subject: **IC UPDATE**

Model: **PVM-2030/2530**

Serial No: **ALL**

DESCRIPTION

Production of the μ PD8243C(M) (IC104 on the B1 board) has been discontinued. As a service part, μ PD82C43C is now available.

Former		New
μ PD8243C(M) 8-759-182-43	➡	μ PD82C43C 8-759-101-14

When replacing IC104 with the new part, perform the following modification procedure.

MODIFICATION PROCEDURE

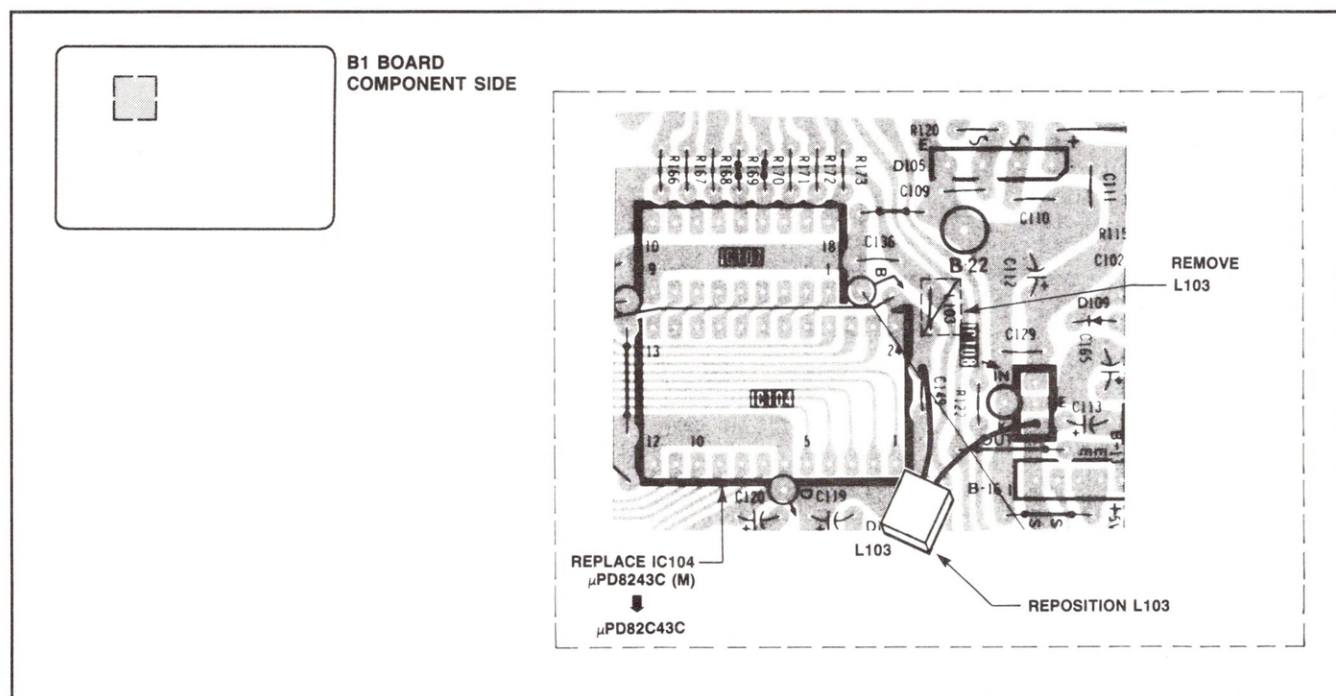
B1 Board, Component Side

1. Replace IC104 (μ PD8243C) (zone B-3) with the new component (μ PD82C43C).
2. Remove L103 (180 μ H) (zone B-4).
3. Solder L103 between trace leading from IC104-24 and IC108 (zone B-4) OUT (STBY + 5V).

NOTE: Units that have B1 boards with a part number of 1-619- 317-19 or higher will be factory modified.

PARTS REQUIRED

Part No.	Description	Qty.
8-759-101-14	IC, μ PD82C43C (IC104)	1



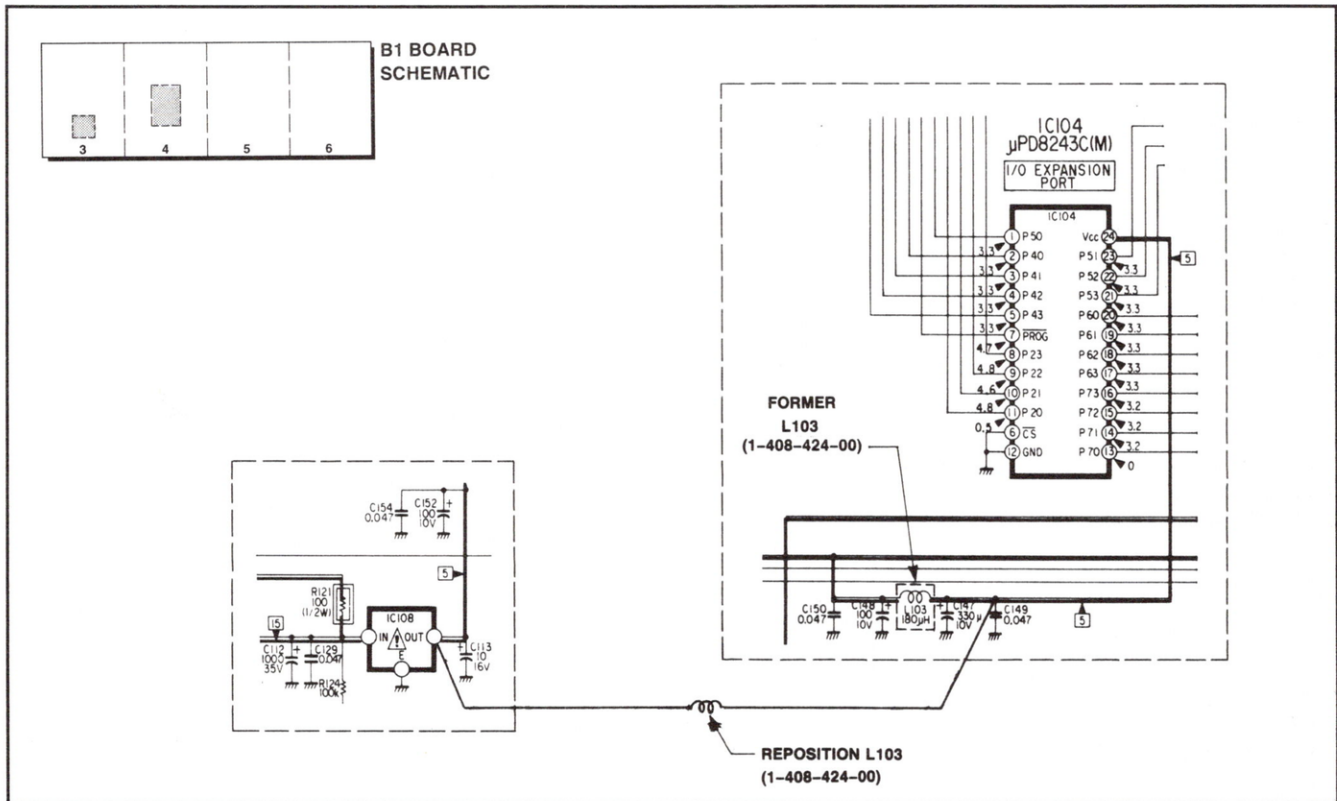


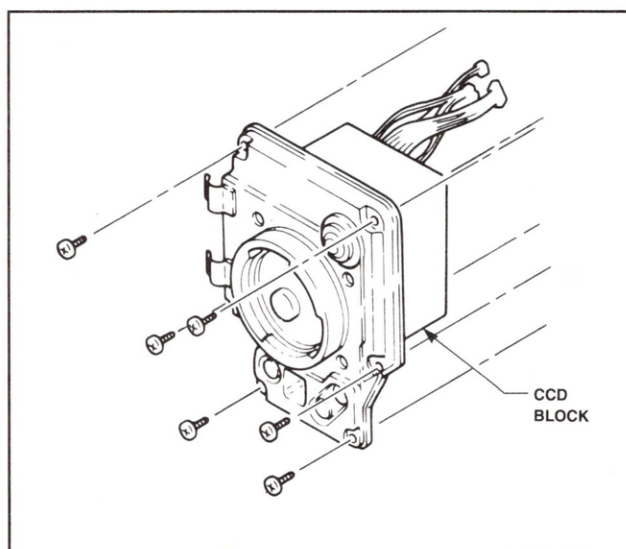
Figure 2

CameraDate: **February 24, 1992**Subject: **CCD BLOCK PRODUCTION DATE**Model: **DXC-325/327/M7/730/750/750MD/755/
760MD**Serial No: **ALL****DESCRIPTION**

Beginning September 1991, the CCD block production date label designates the year-month of production. For example, a "9109" label indicates September 1991.

The label is normally affixed to the inside of both left and right side plates, directly opposite the name plate. (If there is no name plate on the camera, the label is affixed to the inside of either the left or right side plate.)

In the case of a CCD block which has been repaired, the label is affixed on the top of the prism bracket or on the shield plate near the block number label. (See Figure 1.)

**Figure 1**

Editor

Date: February 24, 1992

Subject: FIRMWARE UPGRADE—VERSION 1.7

Model: RM-450

Serial No: 10,001-78,175

DESCRIPTION

Version 1.7 firmware is now available. Installation of the new firmware will provide the following new functions.

- The RM-450 can now be connected to LVA and LVR units.
- 3X DT speed can now be used on the BVW-D75.
- When used with VTR units having a fast CUE UP time (such as the PVW-2600/2800 and the BVW-D75), TC jump routine now operates correctly.
- TC jump routine no longer operates during DT editing.
- In previous firmware versions, the pre-roll point was shifted a number of frames during DT editing on PAL units. This has been corrected.

Version 1.7 firmware has been factory installed in units with serial numbers 78,176 and higher.

PARTS REQUIRED

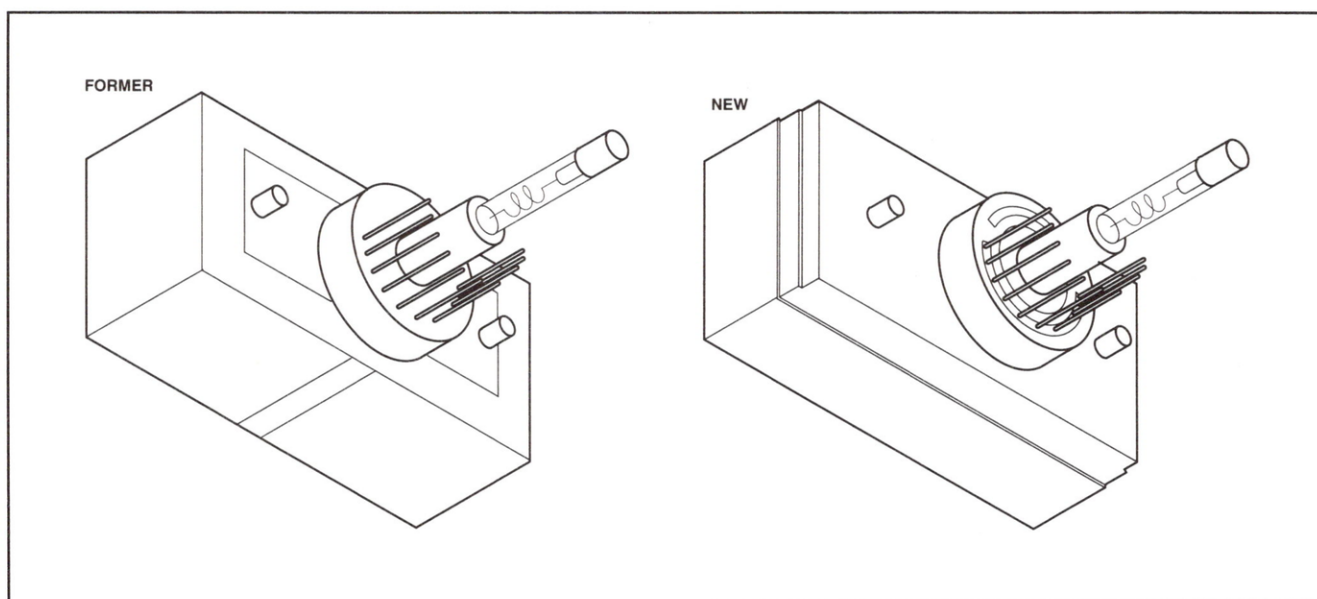
Part No.	Description	Qty.
8-759-064-21	EPROM (V1.7)	1

INSTALLATION PROCEDURE

1. Replace IC219 (zone B5) on the CPU-3 board with the new EPROM.
2. Turn the unit on while holding down the LEARN key and pressing the A2 switch.
3. Confirm that "RM-450 Ver 1.7" is displayed.

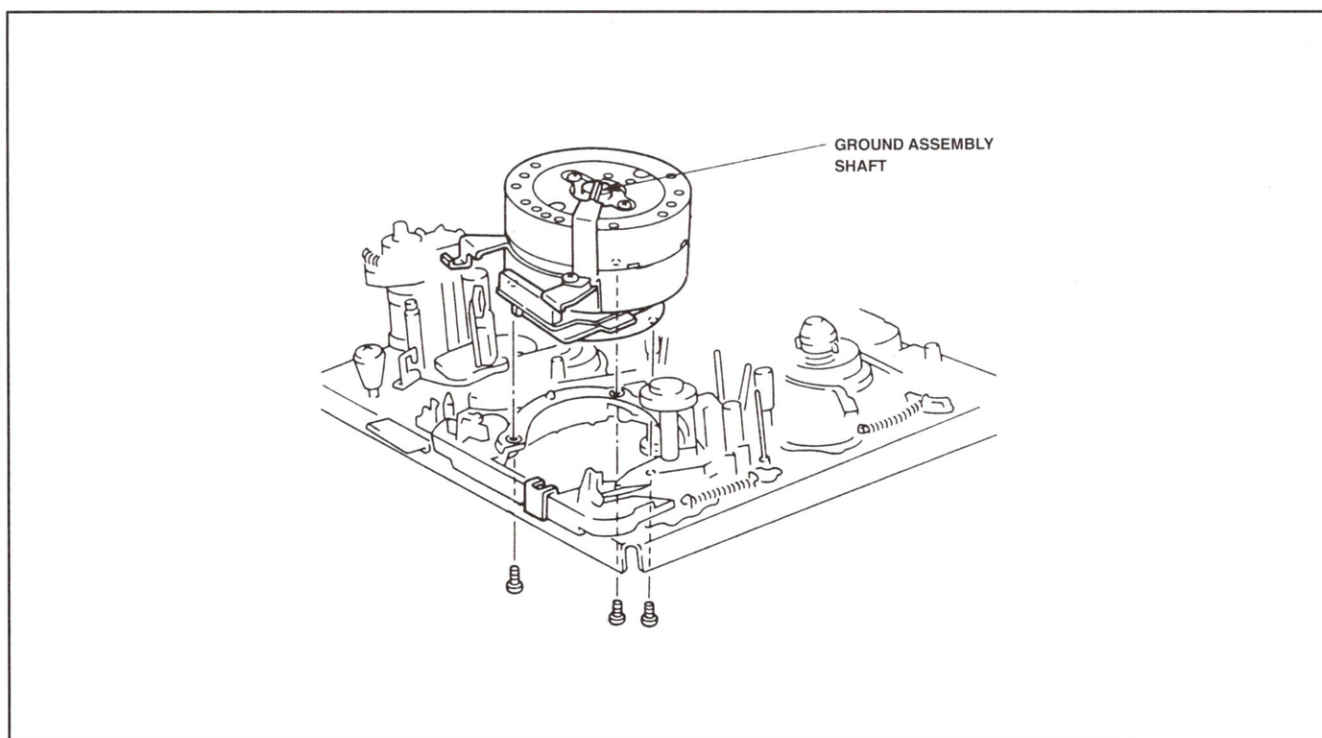
DisplayDate: **February 24, 1992**Subject: **HOUSING CASE DESIGN CHANGE OF
TRINI-LITE CELL**Model: **JTU-2B**Serial No: **ALL****DESCRIPTION**

The housing design of the Trini-lite[®] cell has been changed as shown in Figure 1. The new cell is both mechanically and electrically compatible with the former cell.

**Figure 1**

VTR**Date: February 24, 1992****Subject: PART REGISTRATION—GROUND
ASSEMBLY SHAFT****Model: SVP-120, SVO-140/150/160****Serial No: ALL****DESCRIPTION**

The ground assembly shaft on the drum assembly is now available as a repair part. The part number for the SVP-120, SVO-150, and SVO-160 units is X-2643-202-3. The part number for the SVO-140 unit is X-3733-304-1.

**Figure 1**

Video Conferencing

Date: **February 24, 1992**

Subject: **MANUAL CORRECTION—CABLE
 CONNECTION DIAGRAM**

Model: **PCS-S1200**

Serial No: **ALL**

DESCRIPTION

Correct the PCS-S1200 Service Manual and Supplement-1 as shown in Figure 1.

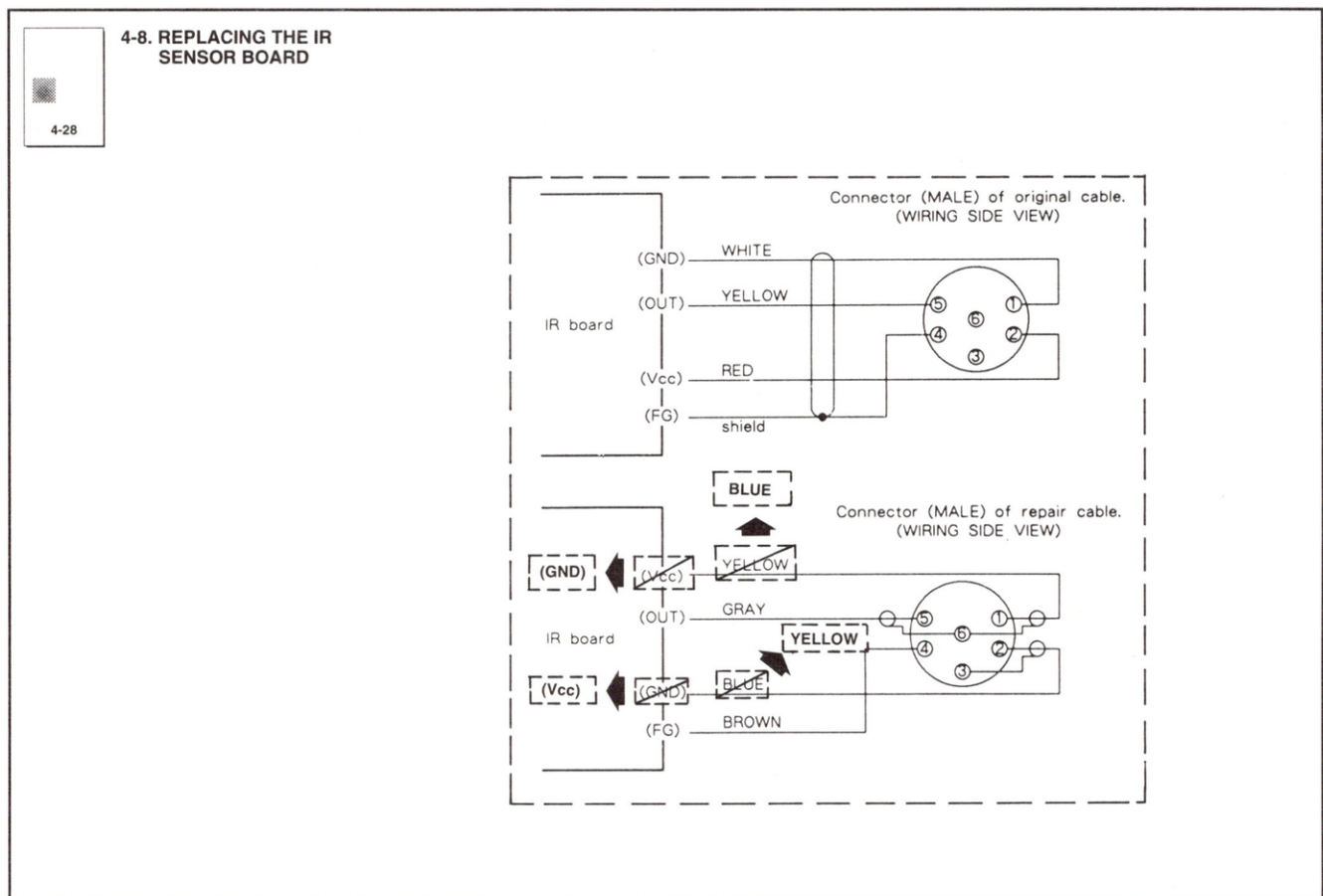


Figure 1

Console

Date: **June 15, 1992**

Subject: **IC REPLACEMENT— μ PC1277H**

Model: **VPH-600Q**

Serial No: **ALL**

DESCRIPTION

IC302 (μ PC1277H) on the F board has been discontinued. If the former IC is unavailable during replacement, use μ PC1241H, and simultaneously replace resistor R304 (2.2k Ω) with a new resistor (1.8k Ω).



Figure 1 shows placement of components.

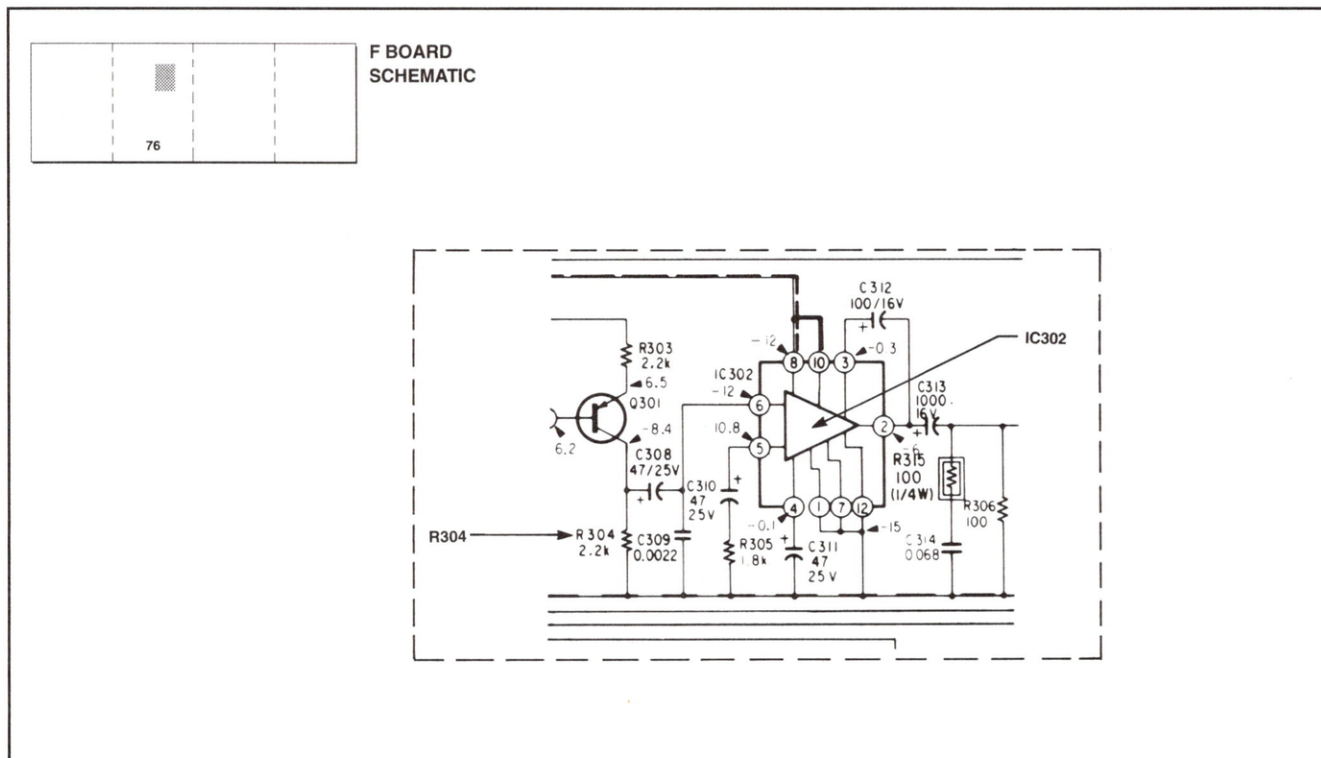


Figure 1

Display

Date: **February 24, 1992**

Subject: **IC REPLACEMENT— μ PC1277H**

Model: **VPH-600Q**

Serial No: **ALL**

DESCRIPTION

IC302 (μ PC1277H) on the F board has been discontinued. If the former IC is unavailable during replacement, use μ PC1241H, and simultaneously replace resistor R304 (2.2k Ω) with a new resistor (1.8k Ω).

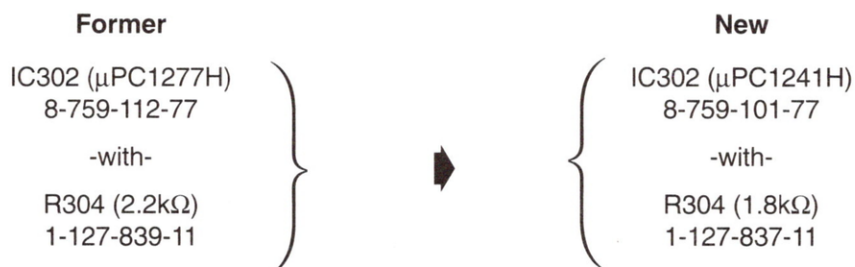


Figure 1 shows placement of components.

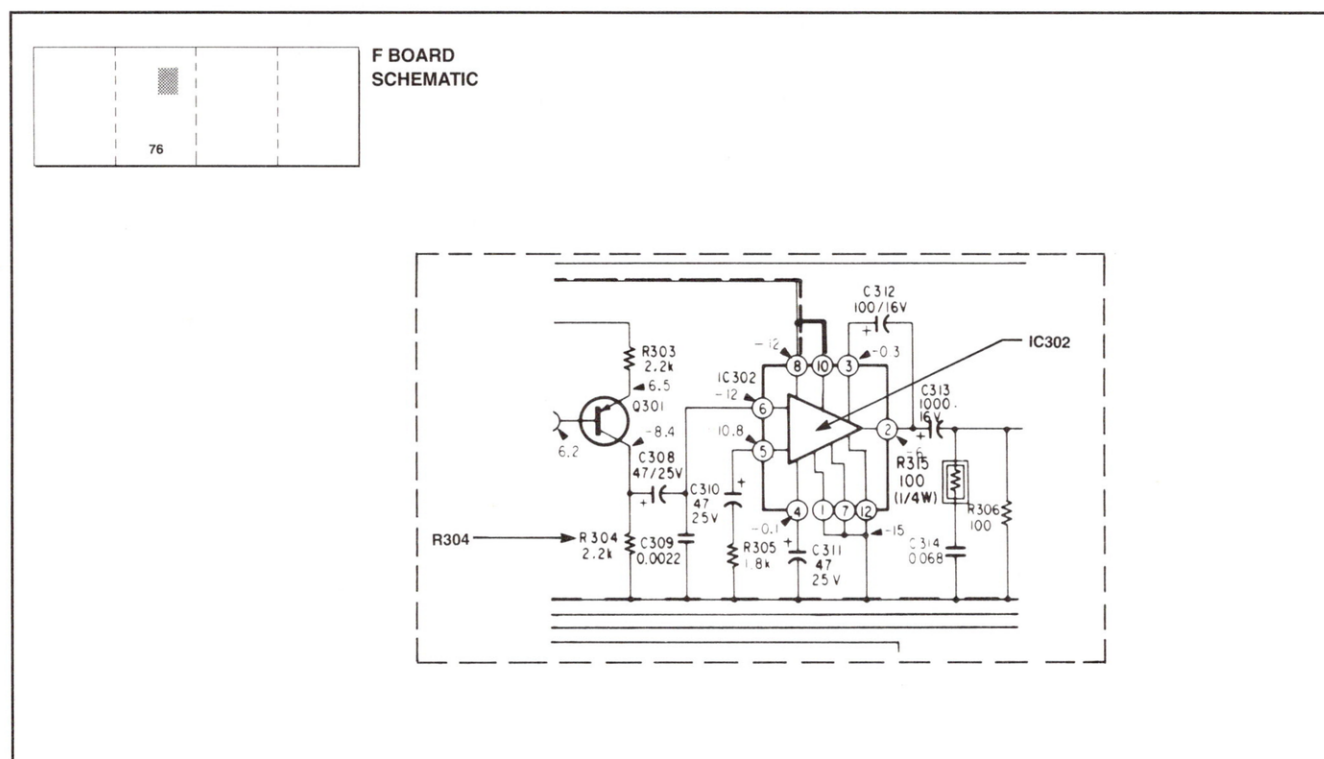


Figure 1

Display

Date: **February 24, 1992**

Subject: **POWER LED DOES NOT ILLUMINATE**

Model: **PVM-5310**

Serial No: **5,001,611-5,001,810**

DESCRIPTION

The power LED may sometimes not illuminate due to a poor solder joint on the H board. Should this occur, observe the solder side of the board near LED 401 and, if necessary, apply solder to the affected area of the board.

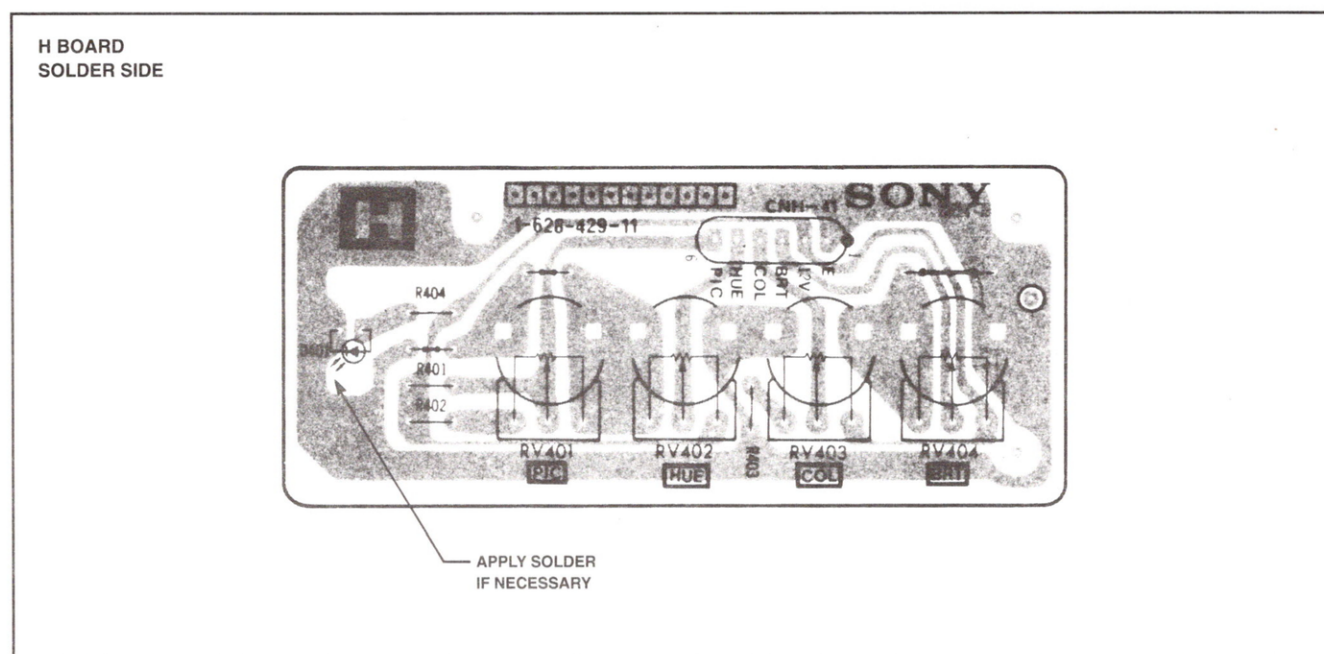


Figure 1

Video Conferencing

Date: **February 24, 1992**

Subject: **MANUAL CORRECTION—REMOTE
COMMANDER**

Model: **PCS-S1200**

Serial No: **ALL**

DESCRIPTION

The picture-in-picture function keys on the remote commander have been described incorrectly in the PCS-S1200 Service Manual, Supplement-1. Correct the manual as shown in Figure 1.

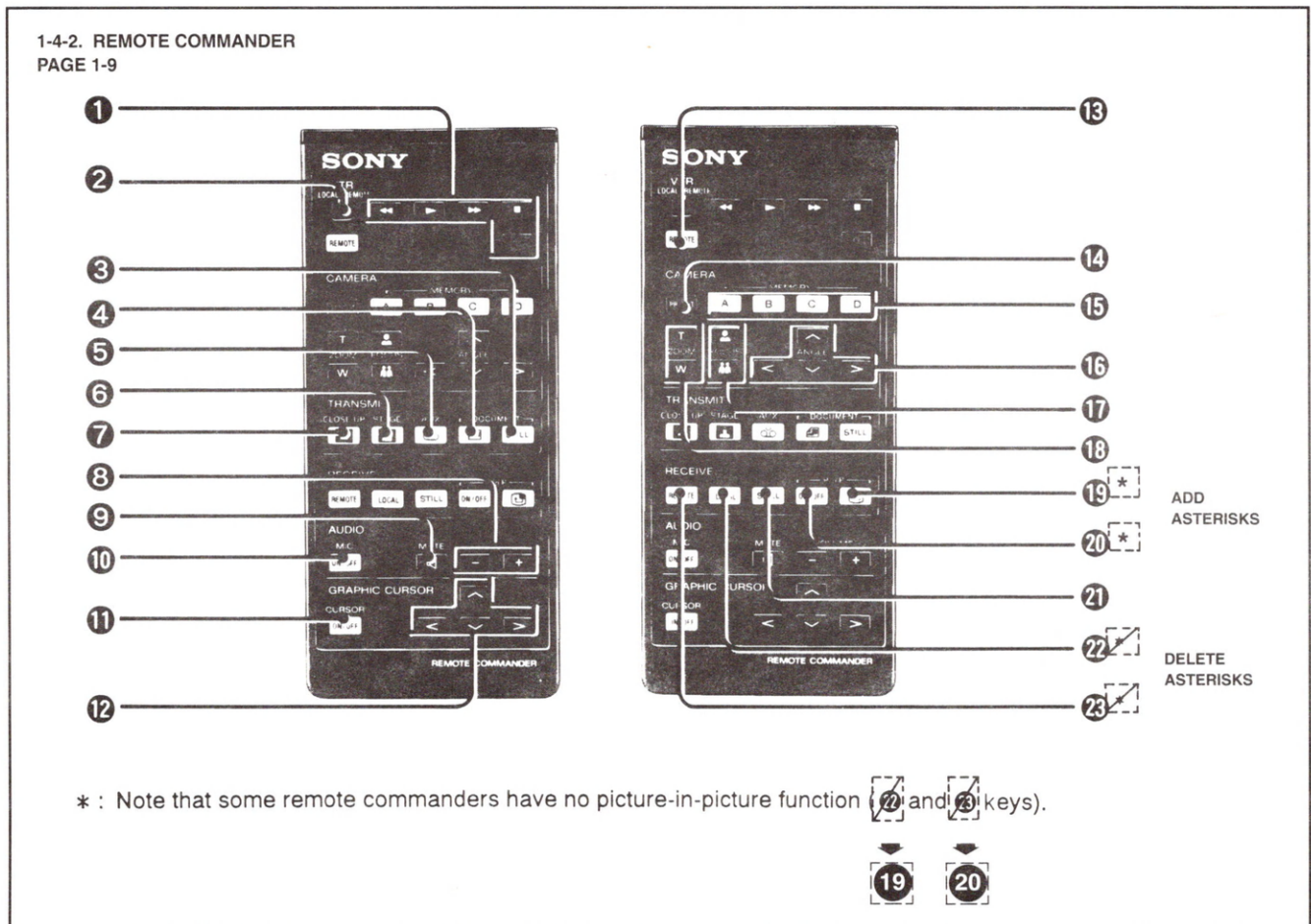


Figure 1

Display

Date: **February 24, 1992**

Model: **RVP-6000Q**

Serial No: **5,000,001-5,000,233**

Subject: **65-75kHz HORIZONTAL FREQUENCY INPUT**

DESCRIPTION

Horizontal frequencies between 65kHz and 75kHz are beyond the normal range for RGB input. To connect signals with this frequency range (65-75kHz), perform the following procedure.

ADJUSTMENT PROCEDURE

1. Connect 65-75kHz signal and perform registration adjustment.
2. If corner distortion cannot be corrected, then adjust blue and red channels as follows. (See Figure 1.) It is not necessary to adjust the green channel.

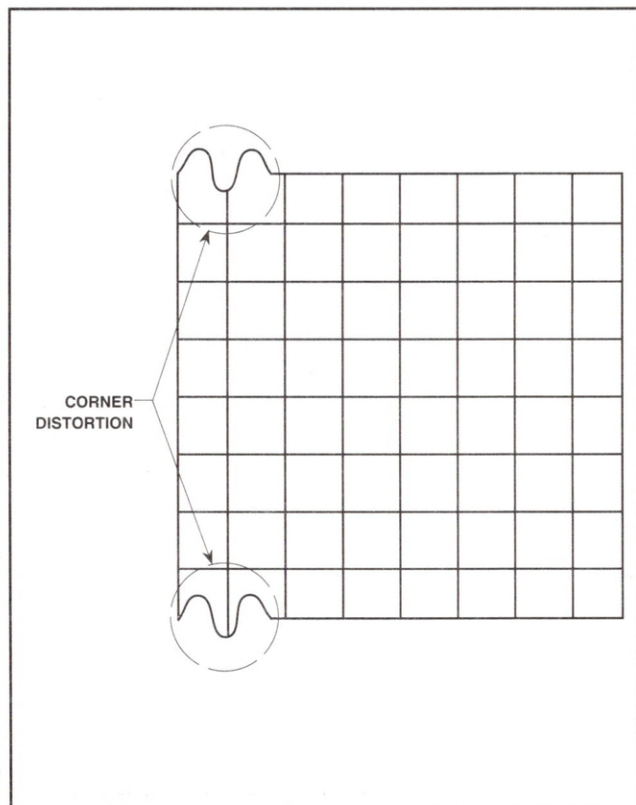


Figure 1

Blue Channel Adjustment

3. In the ZONE adjustment mode, position the cursor at the four corners of the cross-hatch pattern. (See Figure 2.) Move the line up and down using the arrow keys on the commander to find the maximum and minimum vertical positions. Adjust the line to the midpoint of these two positions.
4. Perform PIN and Key adjustments for the vertical direction only.
5. Display the cross-hatch pattern and press SKEW.

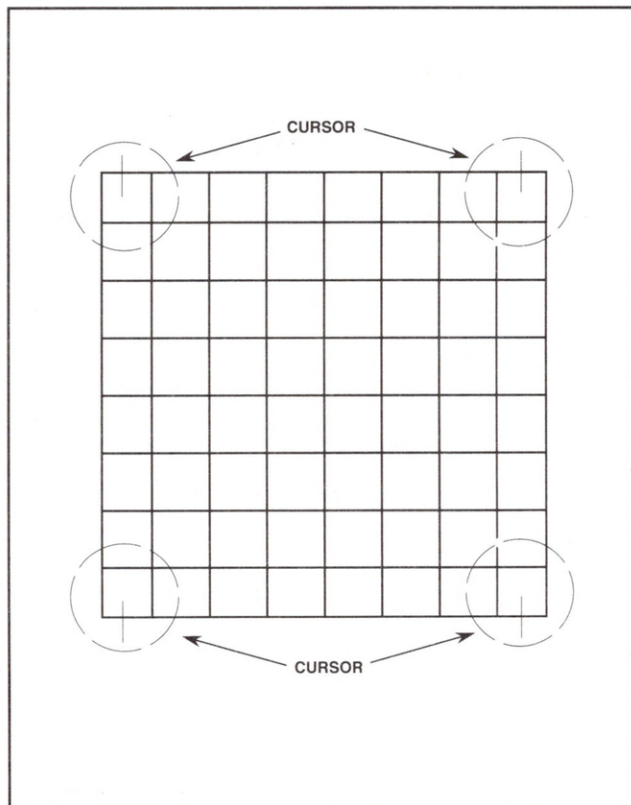


Figure 2

6. Confirm the location of the minimum point by pressing the downward arrow key and moving the line in the MIN direction. If distortion such as that shown in Figure 1 occurs during adjustment, the minimum point is just before distortion appears. (See Figure 3.)
7. Confirm the maximum point by pressing the downward arrow key and moving the line in the MAX direction. If distortion such as that shown in Figure 1 occurs during adjustment, the maximum point is just before distortion appears. (See Figure 4.)

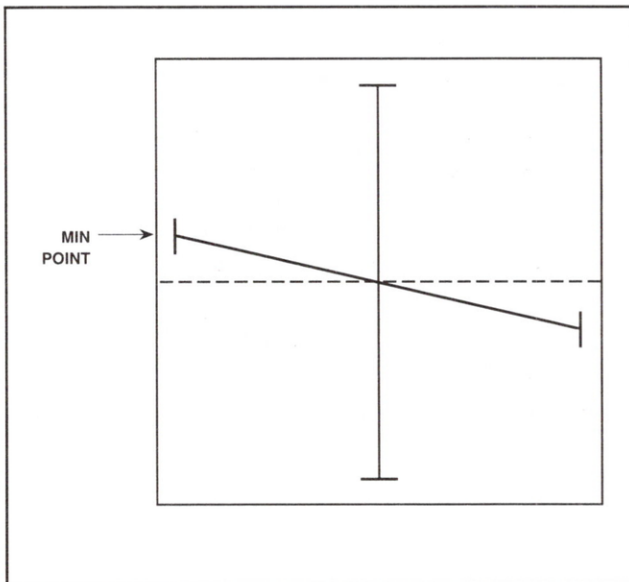


Figure 3

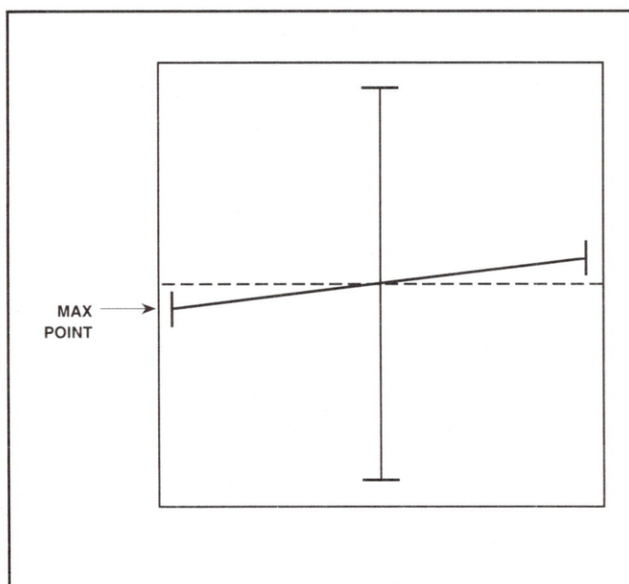


Figure 4

8. Adjust the skew using the arrow keys so that the line is at the midpoint between the MIN and MAX positions. (See Figure 5.)
9. Turn the main deflection yoke for the blue channel so that the skew line is parallel to the screen frame. (The deflection yoke may be fixed with tape. If so, turn power off before proceeding.)

Note: Avoid changing the deflection yoke to CRT distance so that focus is not changed.

Red Channel Adjustment

Repeat steps 3 through 9 for adjustment of the red channel.

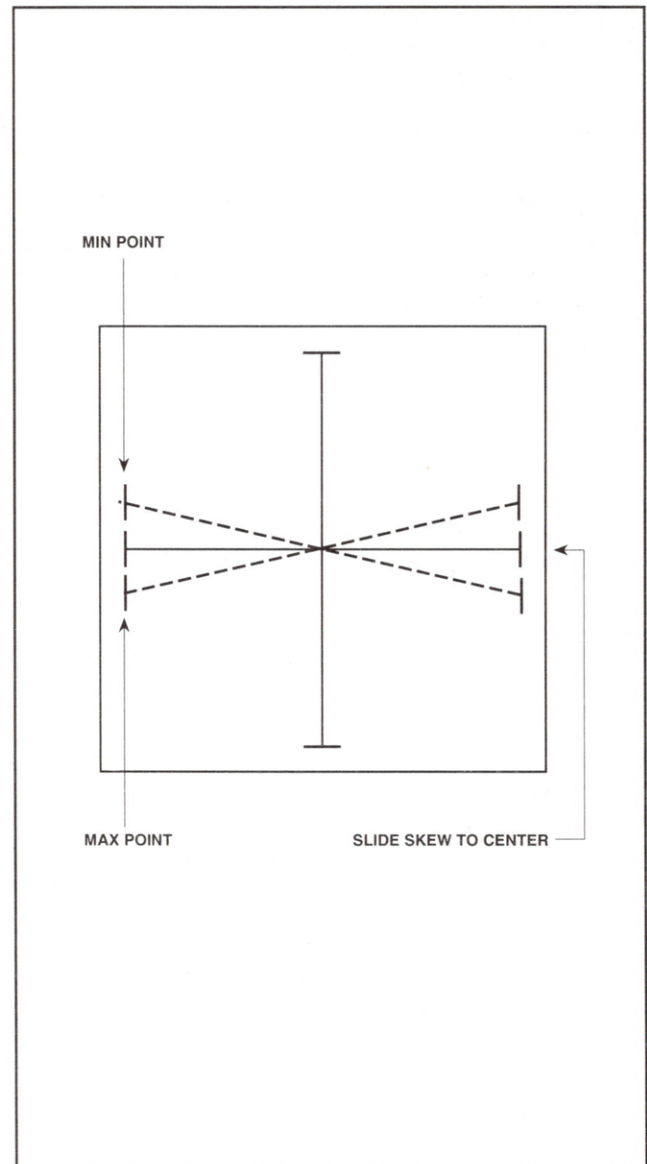


Figure 5

Videodisc

Date: **February 24, 1992**

Subject: **NEW PART—MONOSTABLE
MULTIVIBRATOR IC**

Model: **LVA-7000, LVR-5000/5000A
LVS-5000/5000A**

Serial No: **SEE TEXT**
DESCRIPTION

New monostable multivibrator ICs are now available as replacements for ICs presently in use. The design of the new ICs will result in an output pulse width that is different from that of former ICs. (See Table 1.)

Therefore, whenever a replacement is required for the affected ICs, it may be necessary to replace corresponding resistors as shown in Tables 2 through 4.

Table 1

IC CHANGES			
Former		New	
Part No.	Description	Part No.	Description
8-759-206-28	TC74HC123F PW* = CRx0.46	→ 8-759-239-55	TC74HC123AF PW* = CRx1.0

* "PW" = pulse width

PARTS REQUIRED – LVA-7000

Part No.	Description	Qty.
8-759-239-55	TC74HC123AF IC	3
1-249-422-11	Res, Carbon, 2.7kΩ, 1/4W	2
1-249-425-11	Res, Carbon, 4.7kΩ, 1/4W	1
1-249-420-11	Res, Carbon, 1.8kΩ, 1/4W	1

PARTS REQUIRED – LVS-5000/5000A

Part No.	Description	Qty.
8-759-239-55	TC74HC123AF IC	3
1-247-842-11	Res, Carbon, 3kΩ, 1/4W	1
1-249-425-11	Res, Carbon, 4.7kΩ, 1/4W	1
1-249-420-11	Res, Carbon, 1.8kΩ, 1/4W	1

PARTS REQUIRED – LVR-5000/5000A

Part No.	Description	Qty.
8-759-239-55	TC74HC123AF IC	1
1-249-422-11	Res, Carbon, 2.7kΩ, 1/4W	2

Table 2

LVA-7000*			Former		New	
Board	IC	Res	Part No.	Description	Part No.	Description
FP-307	5		8-759-206-28	TC74HC123F → 8-759-239-55		TC74HC123AF
		R9	1-249-424-11	Res, Carbon, 3.9kΩ, 1/4W → 1-249-422-11		Res, Carbon, 2.7kΩ, 1/4W
		R10	1-249-424-11	Res, Carbon, 3.9kΩ, 1/4W → 1-249-422-11		Res, Carbon, 2.7kΩ, 1/4W
TA-70	54		8-759-206-28	TC74HC123F → 8-759-239-55		TC74HC123AF
		R118	1-249-429-11	Res, Carbon, 10kΩ, 1/4W → 1-249-425-11		Res, Carbon, 4.7kΩ, 1/4W
	62		8-759-206-28	TC74HC123F → 8-759-239-55		TC74HC123AF
		R102	1-249-422-11	Res, Carbon, 2.7kΩ, 1/4W → 1-249-420-11		Res, Carbon, 1.8kΩ, 1/4W

* Serial No: 100,001 – 100,220

Table 3

LVR-5000/5000A*			Former		New	
Board	IC	Res	Part No.	Description	Part No.	Description
FP-193(A)	5		8-759-206-28	TC74HC123F → 8-759-239-55		TC74HC123AF
		R9	1-249-424-11	Res, Carbon, 3.9kΩ, 1/4W → 1-249-422-11		Res, Carbon, 2.7kΩ, 1/4W
		R10	1-249-424-11	Res, Carbon, 3.9kΩ, 1/4W → 1-249-422-11		Res, Carbon, 2.7kΩ, 1/4W

* Serial No: 100,001 – 100,240 (LVR-5000)

* Serial No: 100,001 – 100,415 (LVR-5000A)

Table 4

LVS-5000/5000A*			Former		New	
Board	IC	Res	Part No.	Description	Part No.	Description
TB-10(A)	140		8-759-206-28	TC74HC123F → 8-759-239-55		TC74HC123AF
		R147	1-249-425-11	Res, Carbon, 4.7kΩ, 1/4W → 1-247-842-11		Res, Carbon, 3kΩ, 1/4W
	161		8-759-206-28	TC74HC123F → 8-759-239-55		TC74HC123AF
		R161	1-249-429-11	Res, Carbon, 10kΩ, 1/4W → 1-249-425-11		Res, Carbon, 4.7kΩ, 1/4W
	174		8-759-206-28	TC74HC123F → 8-759-239-55		TC74HC123AF
		R166	1-249-422-11	Res, Carbon, 2.7kΩ, 1/4W → 1-249-420-11		Res, Carbon, 1.8kΩ, 1/4W

* Serial No: 100,001 – 100,235 (LVS-5000)

* Serial No: 100,001 – 100,430 (LVS-5000A)

Display

Date: **March 9, 1992**

Subject: **MANUAL CORRECTION—TSG BOARD
SCHEMATIC**

Model: **JTC-10A**

Serial No: **ALL**

DESCRIPTION

The TSG board circuit has changed. Update the TSG schematic in the Service Manual as shown in Figure 1.

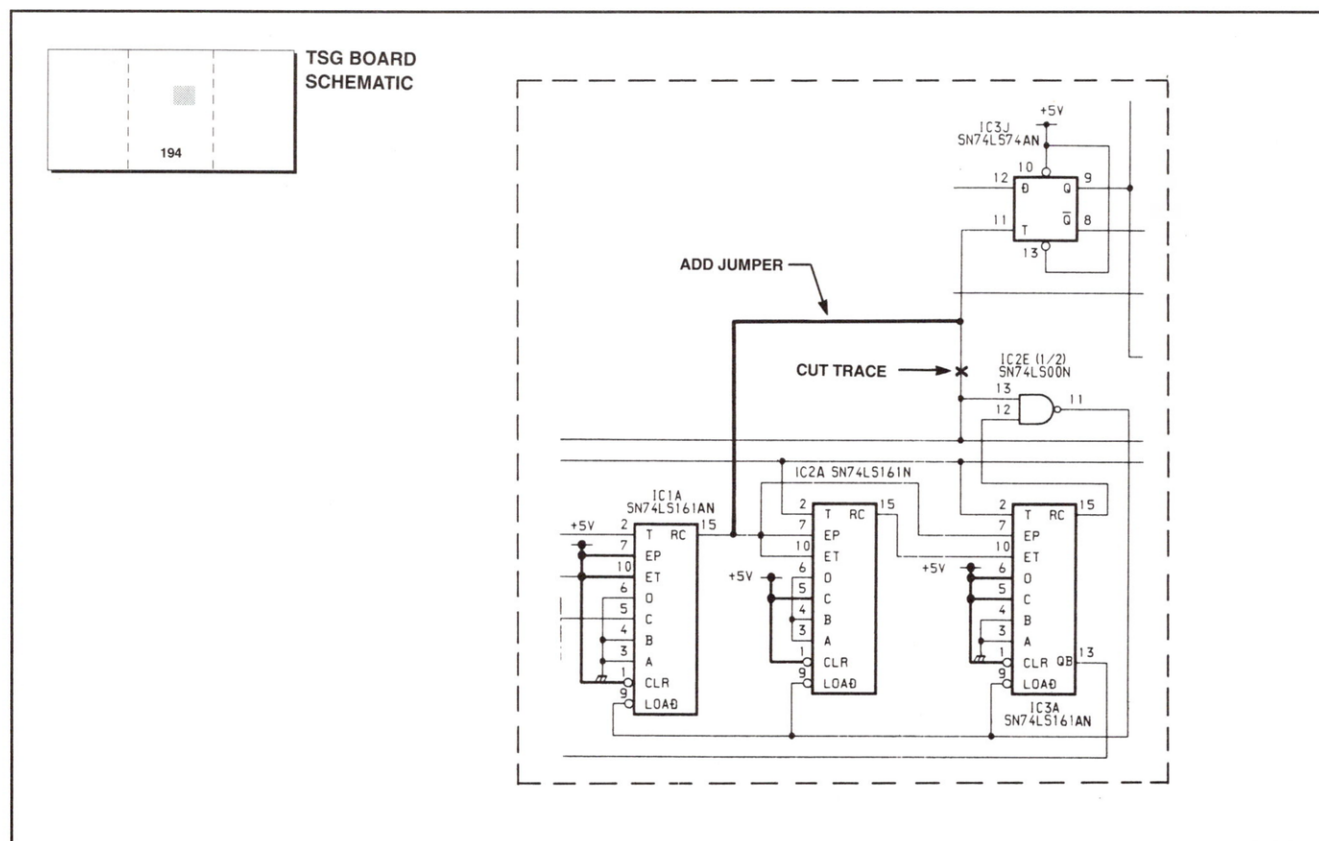


Figure 1

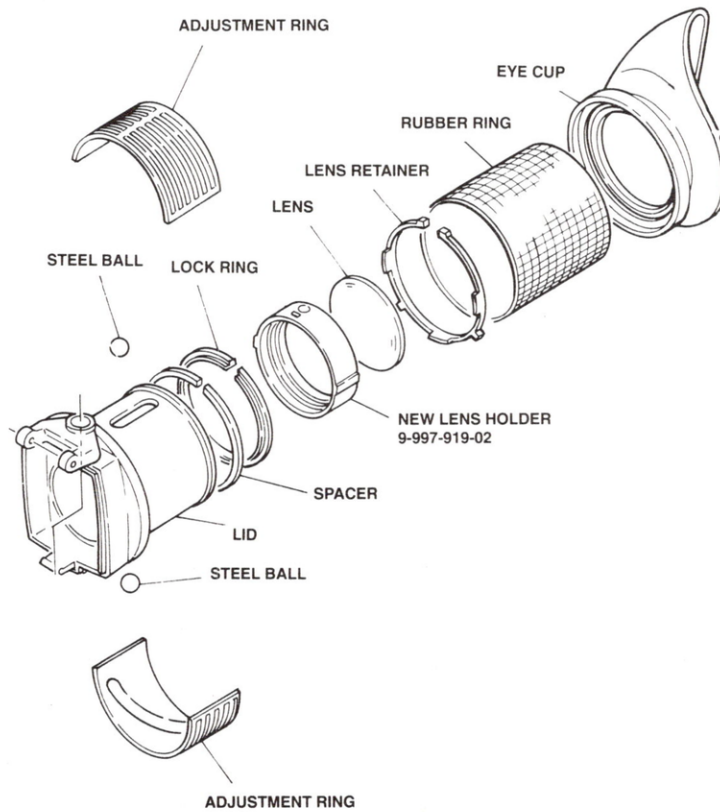
Camera

Date: **March 9, 1992**Subject: **NEW LENS HOLDER FOR VIEWFINDER**Model: **DXF-501**Serial No: **10,001 – 12,260****DESCRIPTION**

A new lens holder (part number 9-997-919-02) for viewfinder DXF-501 is now available. To install the new holder, perform the following modification procedure.

MODIFICATION PROCEDURE**(See Figure 1.)**

1. Remove eyecup from viewfinder.
2. Remove rubber ring from adjustment ring.
3. Remove filament tape from adjustment ring, and separate top and bottom pieces of adjustment ring.
4. Remove steel balls from lens holder.
5. Remove lens retainer from lens holder by pressing two top tabs together and then pulling on three projecting tabs. Carefully remove lens.
6. Remove lens holder from lid.
7. Remove lock ring and spacer from lens holder.
8. Position recession of spacer in projection of lid, ensuring that slot in spacer is at bottom of lid and that hooks of spacer are centered on lid.
9. Position recession of lock ring in projection of lid, ensuring that hooks of spacer are centered on lid.
10. Install lens into new lens holder, and attach holder to lid.
11. Position steel balls inside of top and bottom pieces of adjustment ring, and assemble adjustment ring around lens holder assembly.
12. Wind filament tape one complete turn around outside of adjustment ring, with an overlap of no more than 10mm.
13. Attach rubber ring to adjustment ring, ensuring that rubber ring does not exceed the adjustment ring when adjustment ring is turned.
14. Reinstall eyecup.

**Figure 1**

VTR

Date: **March 9, 1992**Subject: **NEW SYSTEM CONTROL ROM**Model: **MMV-5010V**Serial No: **01 - 08****DESCRIPTION**

When recording a multi-program mother tape with a start gray video setting of 40 seconds or more, the BVH unit may start playing back while the MMV records a blank signal after the first program is recorded. To correct this, replace the system control ROM.

The new ROM has been factory installed in units with serial numbers 19 and higher.

PARTS REQUIRED

Part No.	Description	Qty.
1-808-504-11	Syscon ROM, 91018-02-01	1

VTR

Date: **March 9, 1992**

Subject: **CSV BOARD MODIFICATION**

Model: **MMV-500A/5010V/5001V/5002V**

Serial No: **001-016 (MMV-500A)**
001-020 (MMV-5001V)
001-018 (MMV-5010V)
001-020 (MMV-5002V)

DESCRIPTION

The CTL REC signal may interfere with the reference voltage (+6V). To prevent this from occurring, add a 1S1585 diode to the CSV board when replacing the capstan motor.

PARTS REQUIRED

Part No.	Description	Qty.
8-719-815-85	Diode, 1S1585, D203	1

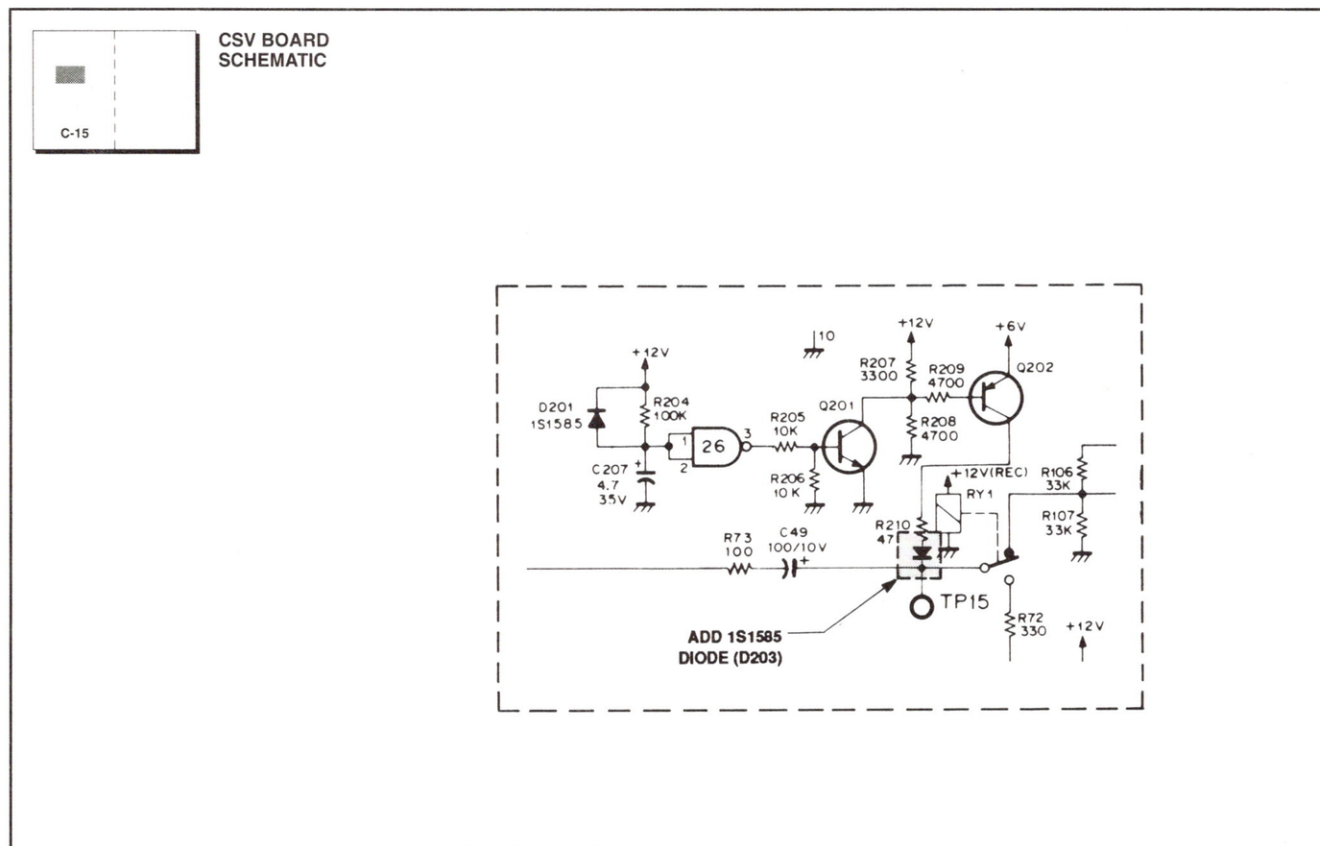


Figure 1

Camera

Date: **March 9, 1992**

Model: **DXC-327, DXF-501**

Serial No: **ALL**

Subject: **NEW EYEPiece LENS FOR
VIEWFINDER**

DESCRIPTION

A new eyepiece lens for viewfinder DXF-501 is now available. This lens improves the presbyopic characteristic of the viewfinder, as well as increasing the adjustable range of the diopter from -3 to -1 (D) to -1 to +1 (D).

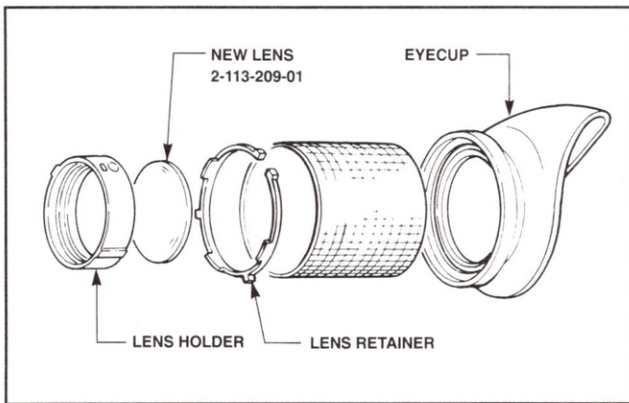


Figure 1

MODIFICATION PROCEDURE

1. Turn diopter adjusting ring in the direction shown in Figure 2.

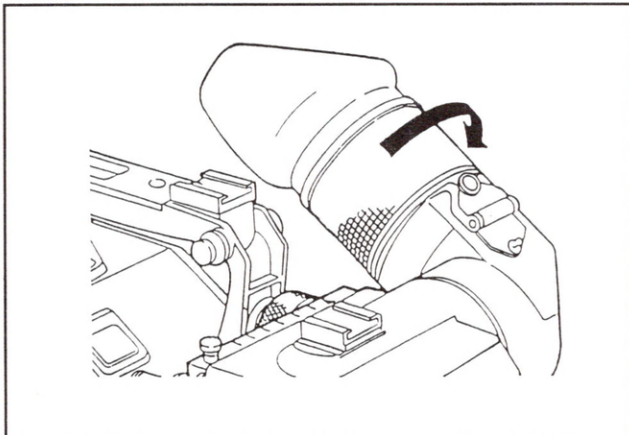


Figure 2

2. Remove eyecup from viewfinder.
3. As shown in Figure 3, remove retainer from holder by first pressing two top tabs together and then pulling on projecting tabs. Remove lens.

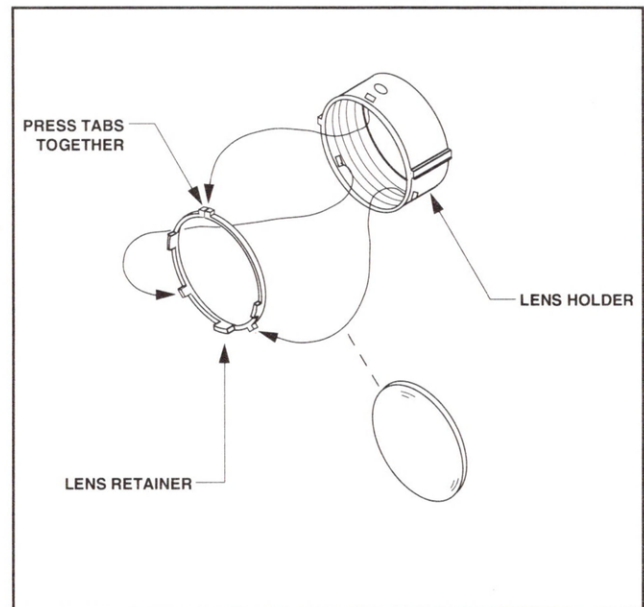


Figure 3

4. Install new lens into holder ensuring that the lens is free from stains and flaws.
5. Reinstall retainer into holder.
6. Turn diopter adjusting ring so that lens does not interfere with eyecup installation.
7. Reinstall eyecup.

VTR

Date: **March 23, 1992**

Subject: **PARTS REGISTRATION—REAR COVER**

Model: **PVM-5310**

Serial No: **ALL**

DESCRIPTION

Add the rear cover part number to the PVM-5310 Service Manual as shown in Figure 1.

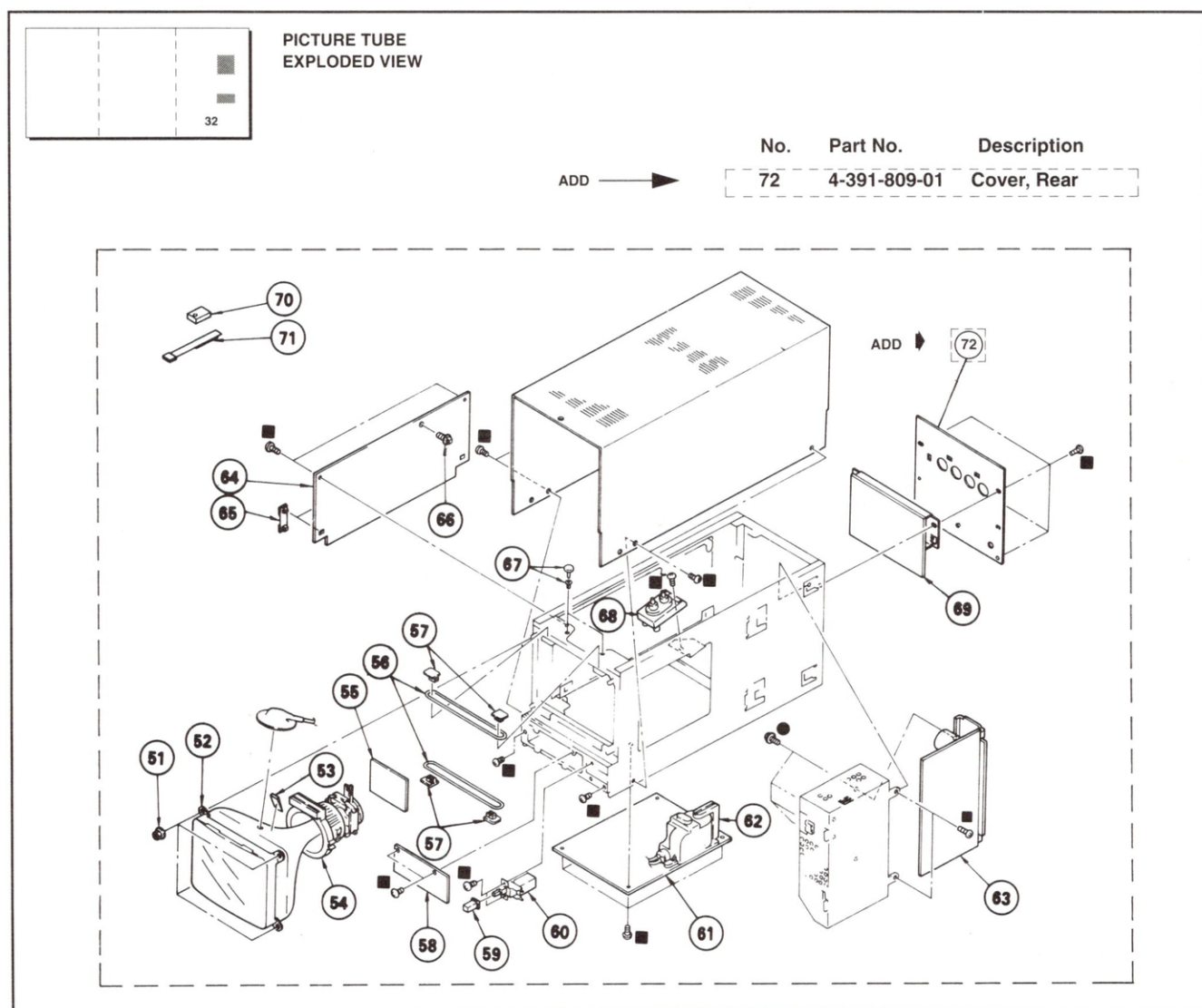


Figure 1

Camera

Date: **March 23, 1992**

Subject: **POWER UP FAILURE**

Model: **DXC-M7**

Serial No: **10,001-11,150**

DESCRIPTION

The aging characteristics of capacitors C1 and C5 on the PS-141 board may sometimes cause a power up failure when the unit is used in conjunction with a CCZA cable (100m) and a CCU-M7.

To correct this, replace C1 and C5 on the PS-141 board as shown in Figure 1, and mount the parts shown in Figure 2 to Q3.

PARTS REQUIRED

Part No.	Description	Qty.
1-124-480-11	Cap, Elect, 470 μ F, 25V (C1)	1
1-126-541-11	Cap, Elect, 330 μ F, 25V (C5)	1
X-3680-647-1	Heat Sink Assembly	1
3-725-912-01	Radiation Rubber	1
2-832-007-00	Insulating Bushing (k)	1
7-621-772-48	Screw +B2x8	1
7-622-205-05	Nut, M2 Type 2	1

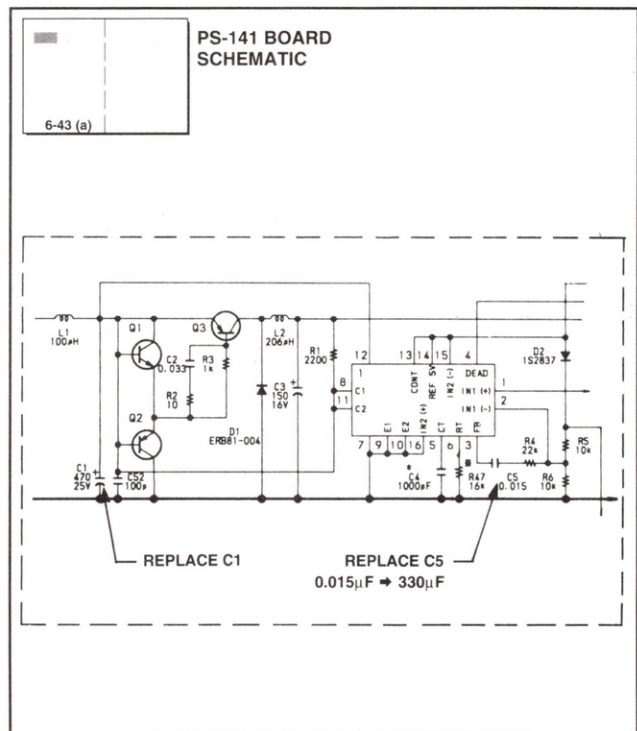
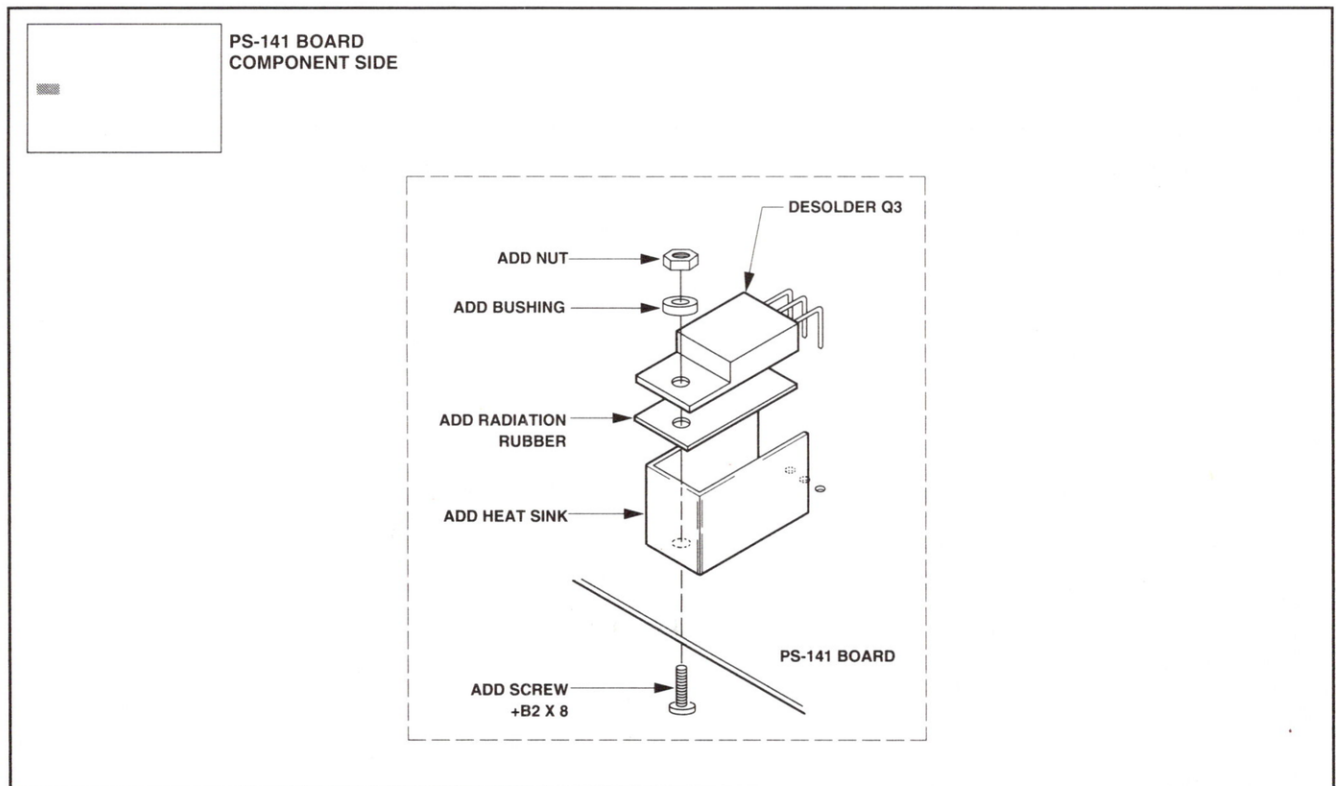


Figure 1

**Figure 2**

Camera

Date: **August 28, 1995**

Subject: **POWER UP FAILURE**

Model: **DXC-M7**

Serial No: **10,001-11,150**

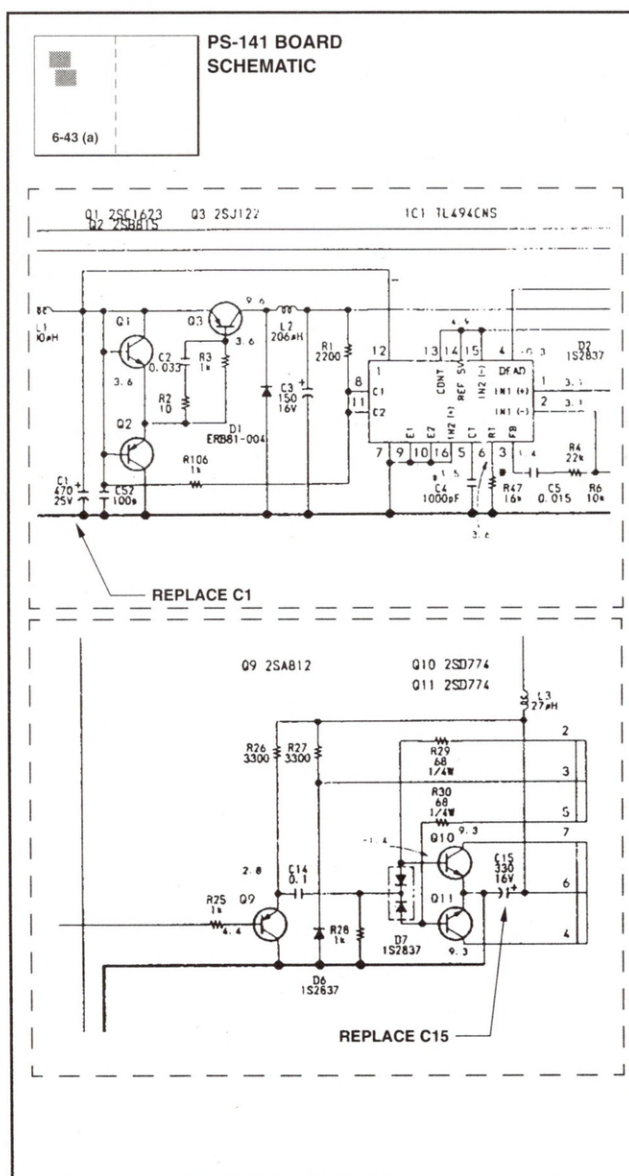
DESCRIPTION

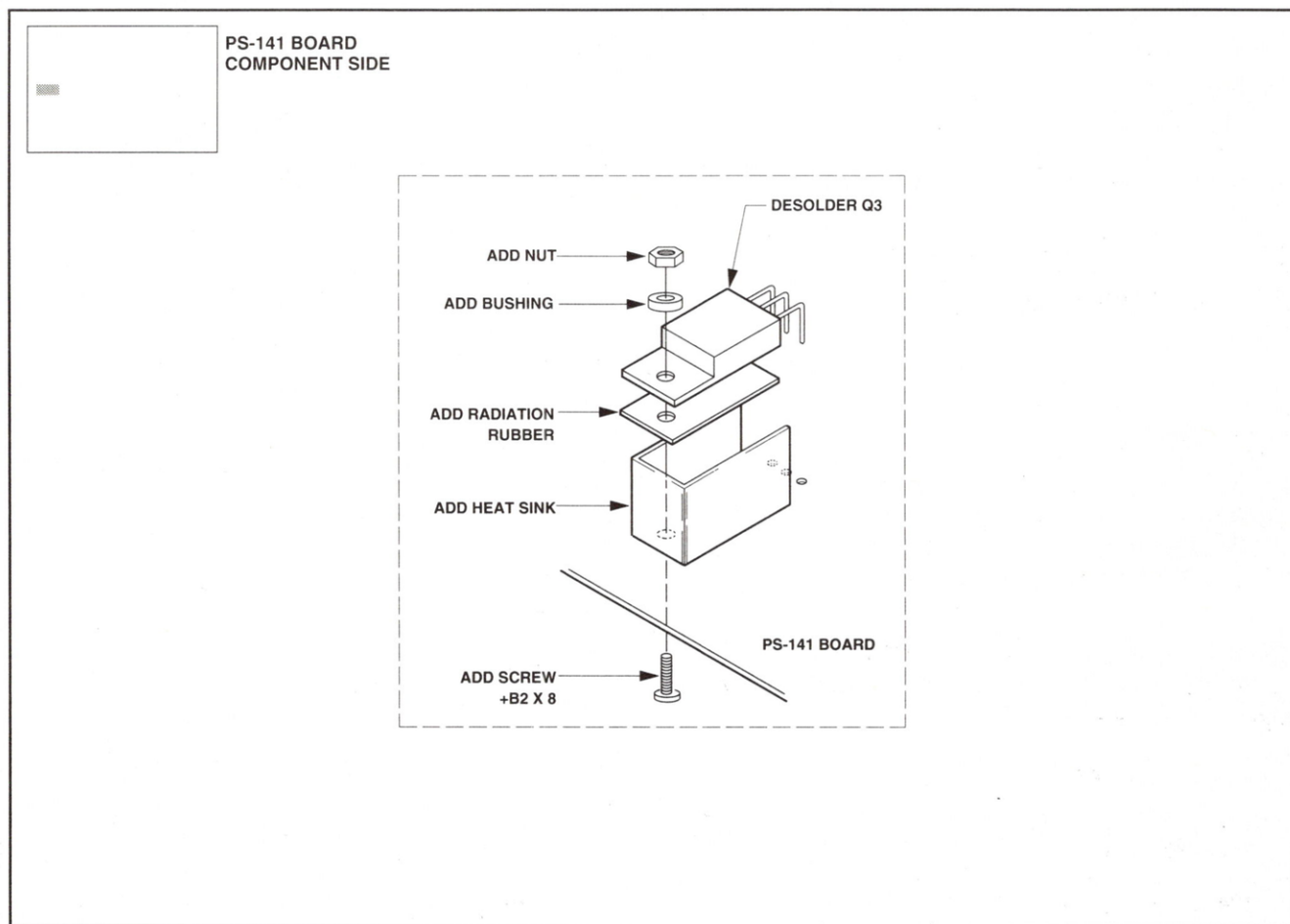
The aging characteristics of capacitors C1 and **C15** on the PS-141 board may sometimes cause a power up failure when the unit is used in conjunction with a CCZA cable (100m) and a CCU-M7.

To correct this, replace C1 and **C15** on the PS-141 board as shown in Figure 1, and mount the parts shown in Figure 2 to Q3.

PARTS REQUIRED

Part No.	Description	Qty.
1-124-480-11	Cap, Elect, 470 μ F, 25V (C1)	1
1-126-541-11	Cap, Elect, 330 μ F, 25V (C15)	1
X-3680-647-1	Heat Sink Assembly	1
3-725-912-01	Radiation Rubber	1
2-832-007-00	Insulating Bushing (k)	1
7-621-772-48	Screw +B2x8	1
7-622-205-05	Nut, M2 Type 2	1



**Figure 2**

VTR

Date: September 21, 1992

Model: BVU-150

Serial No: 10,001 AND HIGHER

Subject: **PICTURE INSTABILITY WHEN
CONNECTED TO IKEGAMI CAMERA**

DESCRIPTION

Picture instability may occur when the BVU-150 is connected to the Ikegami ITC-730A camera. To eliminate this instability, perform the modifications described in the following procedure.

Figure 3 shows a schematic of the former and new circuitry.

PARTS REQUIRED

Part No.	Description	Qty.
1-249-429-11	Res, carbon, 10k Ω	1
1-107-085-00	Cap, silvered mica, 100pF	1
1-408-420-00	Micro inductor, 82 μ H	1

MODIFICATION PROCEDURE

YC-26 Board

Component Side (See Figure 1.)

1. Remove C102 and L101 (zone G-1).
2. Solder 10k Ω resistor parallel to 100pF capacitor leads.

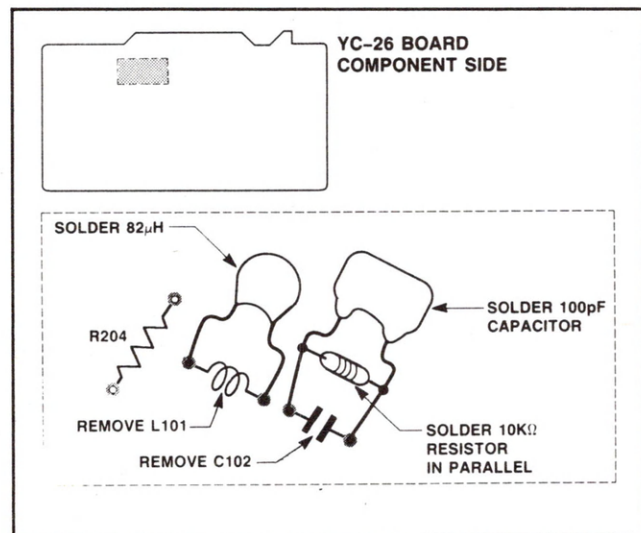


Figure 1

3. Install (solder) capacitor in former C102 location.
4. Solder 82 μ H inductor in former L101 location.

Solder Side (See Figure 2.)

1. Cut trace at location shown in Figure 2.
2. Solder a 20mm jumper between Q102 base and feed-thru hole near R204.

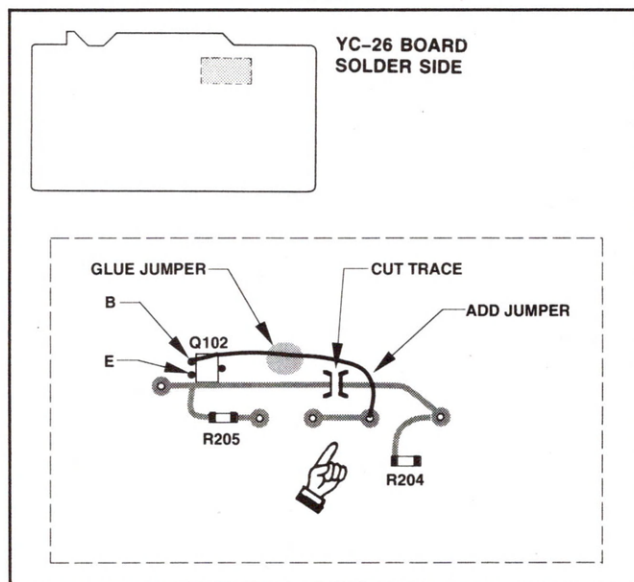


Figure 2

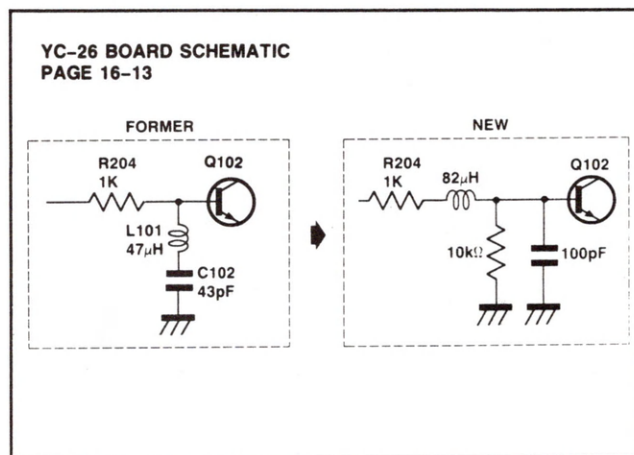


Figure 3

VTR

Date: **March 23, 1992**

Subject: **MANUAL CORRECTIONS—
ELECTRICAL ADJUSTMENT**

Model: **SVRM-960**

Serial No: **10,001 AND HIGHER**

DESCRIPTION

Correct the SVRM-960 Service Manual as shown in Figures 1 through 4.

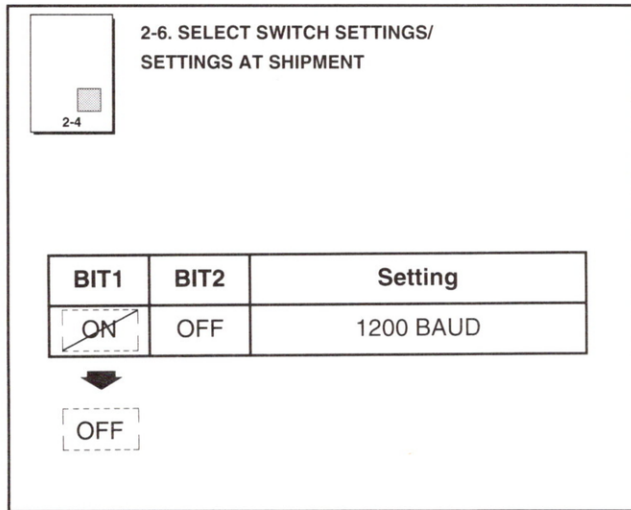


Figure 1

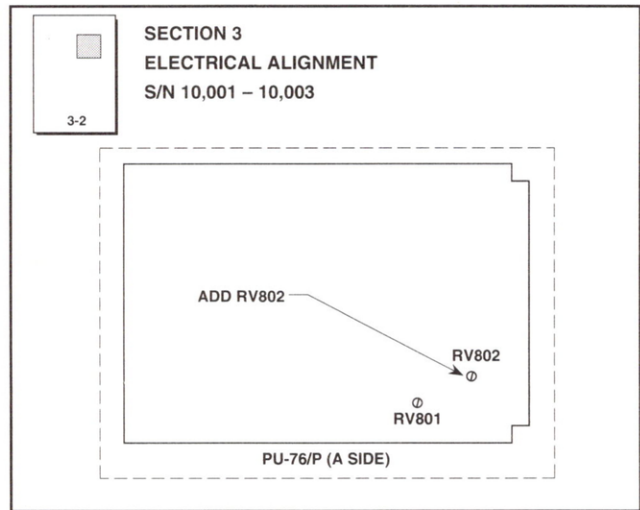


Figure 2

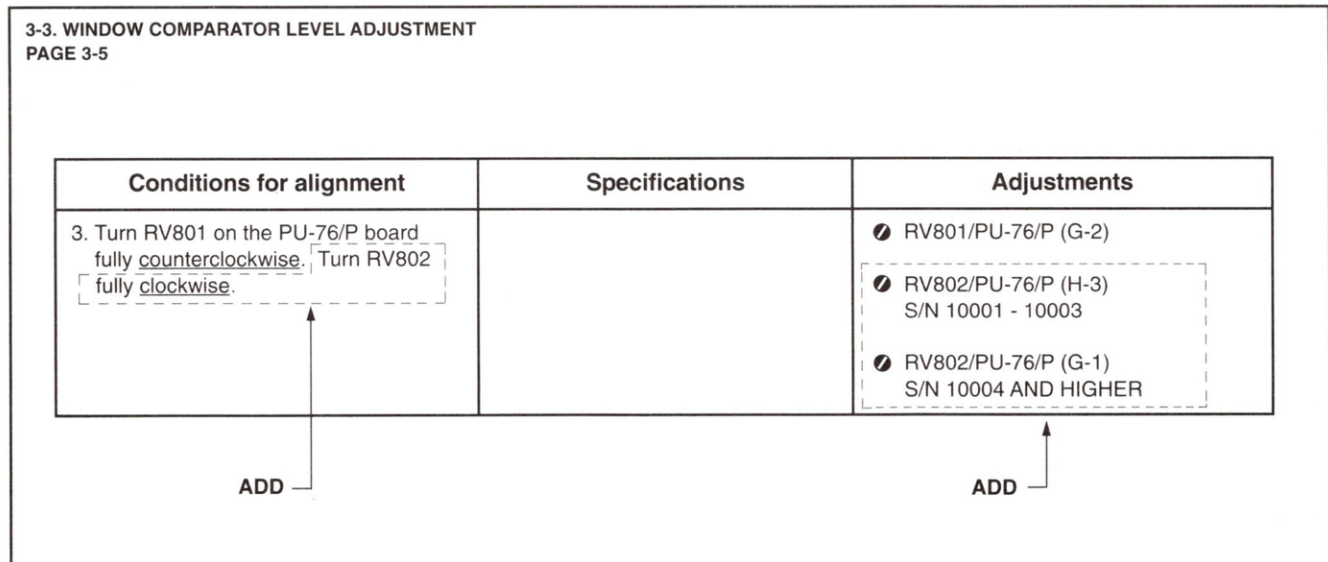
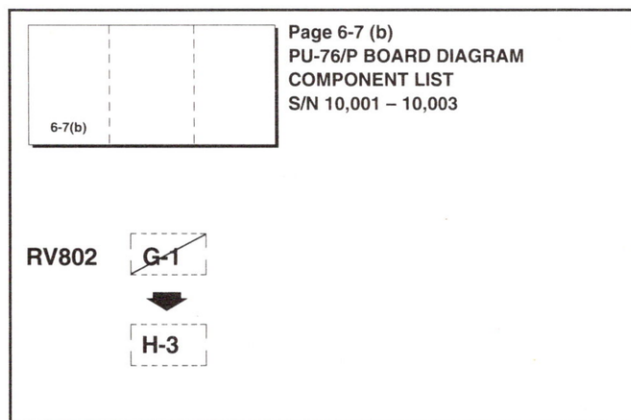


Figure 3

*Figure 4*

Display

Date: **March 23, 1992**

Subject: **VERSION CODE AND SERIAL NUMBER
 INFORMATION**

Model: **JTU-8B**

Serial No: **SEE TEXT**

DESCRIPTION

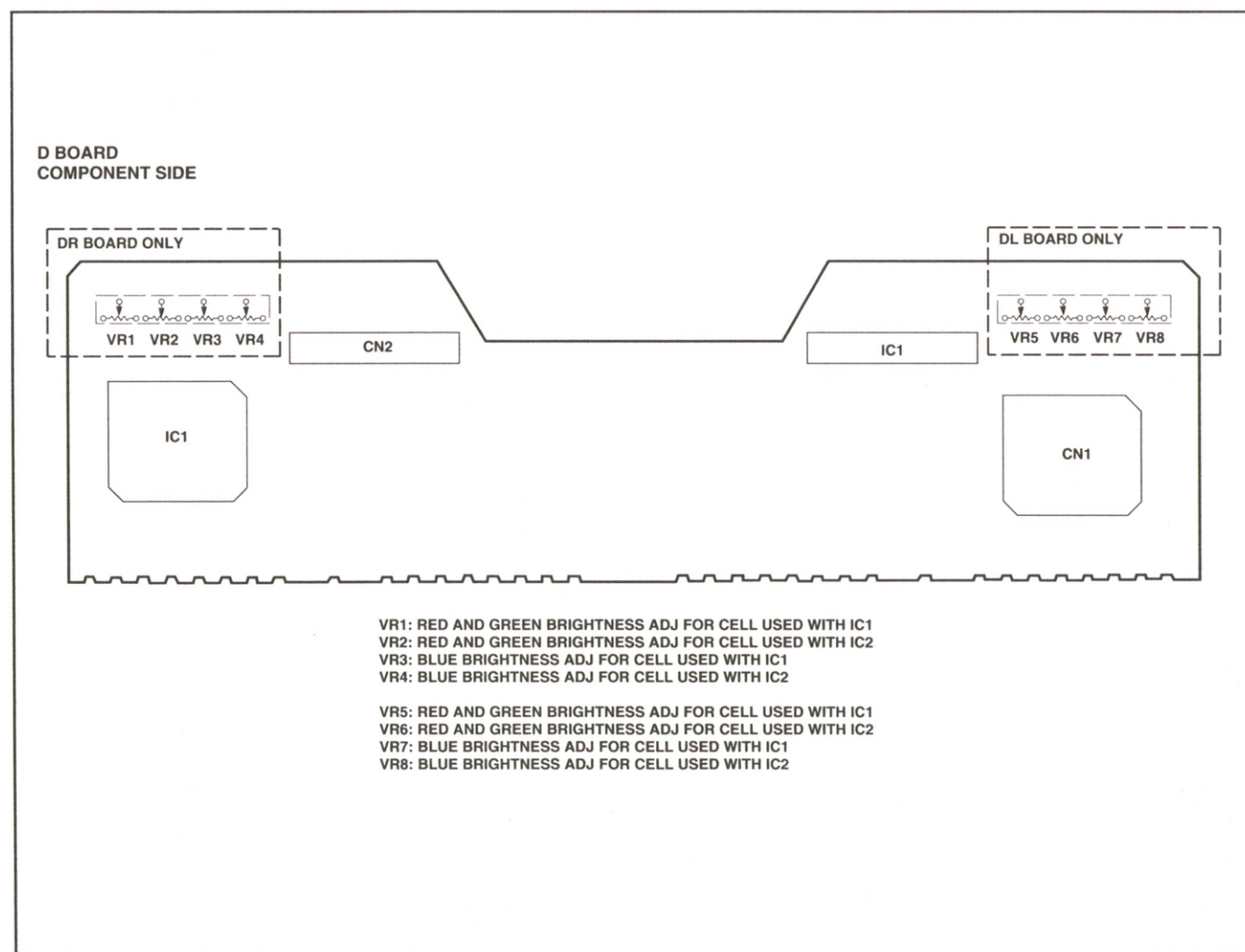
Utah Jazz Jumbotron units have two different version codes. With version code 30005, the original D board is used. With version code 30205, the D board has been changed to include adjustment for blue brightness. (See Figure 1). Both version boards are interchangeable. Update the JTU-8B schematic as shown in Figure 2.

Units with Version Code 30005

21,652	22,112	22,382-22,383	22,536-22,544
21,657	22,114	22,385-22,387	22,546-22,552
21,660	22,120	22,390-22,396	22,554-22,584
21,670	22,124-22,125	22,399	22,586-22,587
21,673	22,127-22,128	22,401-22,403	22,589-22,596
21,675	22,130	22,406-22,407	22,599
21,683	22,137	22,409	22,553
21,693	22,141	22,413-22,414	22,604
21,701	22,143	22,416	22,606
21,704	22,147	22,421	22,630
21,710	22,149	22,424-22,428	22,656
21,715	22,151-22,152	22,430-22,431	22,658
21,717	22,154	22,435-22,437	22,663
21,720	22,156	22,439-22,450	22,668
21,722-21,723	22,158	22,452-22,457	22,672
21,734	22,163	22,462	22,681
21,753-21,754	22,178	22,464-22,466	22,688
21,766	22,181	22,468-22,472	22,697
21,773-21,774	22,183	22,476-22,477	22,701
21,785	22,196	22,481-22,483	22,711
22,056	22,198	22,486	22,714
22,060	22,201	22,488	22,722
22,061	22,204-22,205	22,490-22,491	22,736
22,066	22,211	22,493-22,498	22,743
22,071	22,221	22,500	22,750
22,073	22,227	22,502-22,503	22,759
22,079	22,234	22,505	22,773
22,084	22,240	22,507-22,510	23,435
22,098-22,101	22,353	22,512	23,441
22,104-22,106	22,360	22,514-22,516	23,443
22,109	22,369	22,519-22,534	23,515

Units with Version Code 30205

22,187	23,398	23,505	23,650
22,194	23,401-23,404	23,509-23,513	23,657
22,492	23,406	23,517-23,529	23,683-23,685
22,553	23,411	23,532	23,688
23,352-23,353	23,413-23,416	23,539	23,740
23,356	23,418-23,431	23,546	
23,358	23,433	23,554-23,555	
23,360	23,436-23,440	23,561	
23,363-23,364	23,442-23,443	23,563	
23,369	23,445-23,457	23,567	
23,376	23,459	23,574	
23,379-23,380	23,461-23,476	23,577-23,578	
23,384	23,478-23,480	23,582	
23,386	23,482-23,484	23,584	
23,390	23,486-23,491	23,586	
23,394-23,396	23,495-23,496	23,627	

**Figure 1**

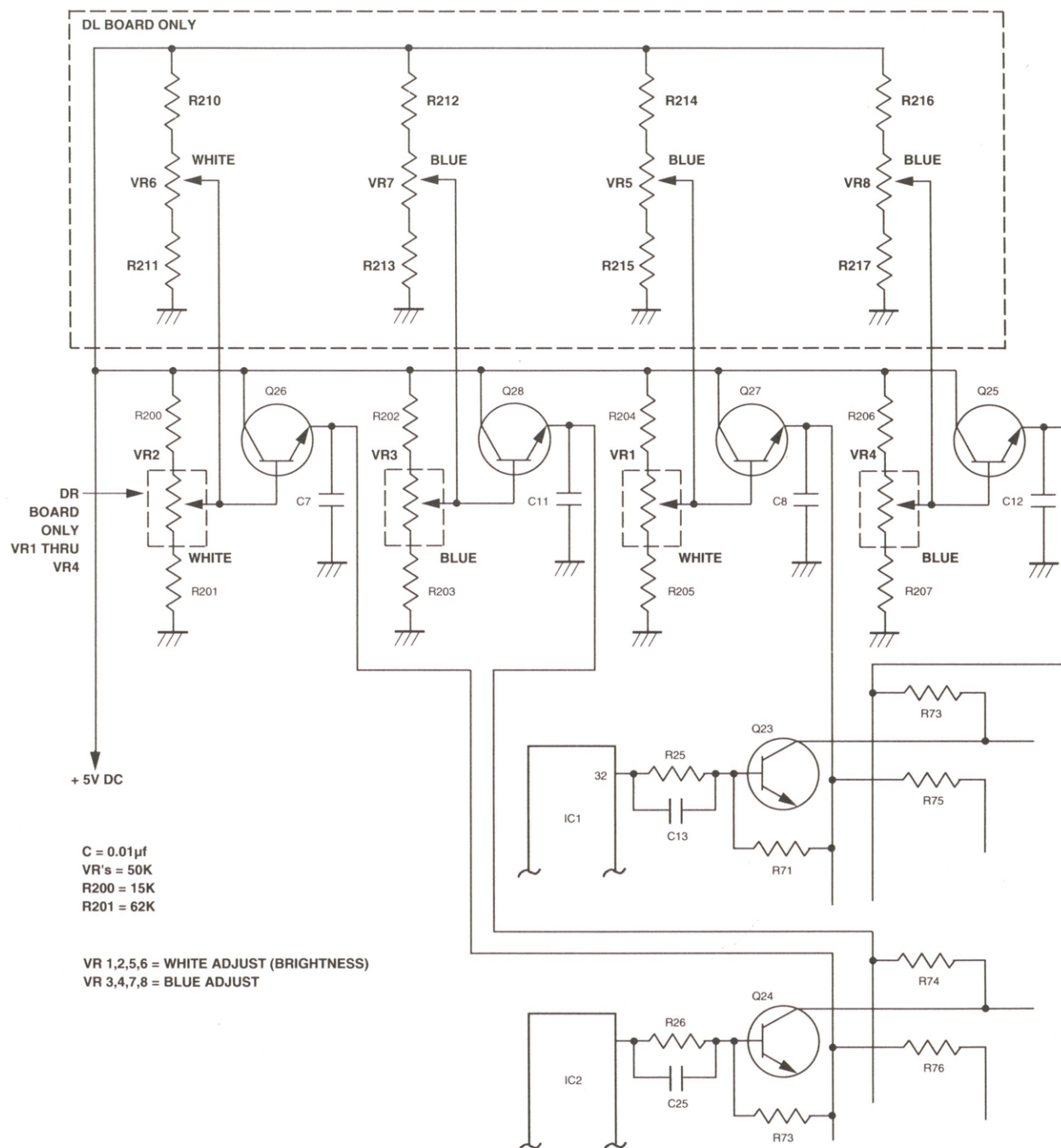


Figure 2

Videodisc

Date: **April 6, 1992**

Subject: **DIAGONAL PICTURE NOISE (BEATS)**

Model: **LVR-5000/5000A**

Serial No: **10,001-10,240 (LVR-5000)**
10,001-10,265 (LVR-5000A)

DESCRIPTION

During self record/playback mode, diagonal picture noise (beats) may sometimes appear. To correct this, modify the LD-10 and SS-89 boards of the LVR-5000 and the SS-89 board of the LVR-500A as described below.

PARTS REQUIRED

Part No.	Description	Qty.
1-130-491-00	Cap, Film, 0.047 μ F	1
1-126-103-11	Cap, Elect, 470 μ F, 16V	1

MODIFICATION PROCEDURE

LD-10 Board

(See Figures 1 and 2.)

1. Solder a 0.047 μ F capacitor between TP307 (zone E-1) and E312 GND (zone J-2). Extend capacitor leads, if necessary, with jumper wire.

SS-89 Board

(See Figures 3 and 4.)

2. Solder a 470 μ F capacitor between R567 (zone E-1) and E505 GND (zone E-1).

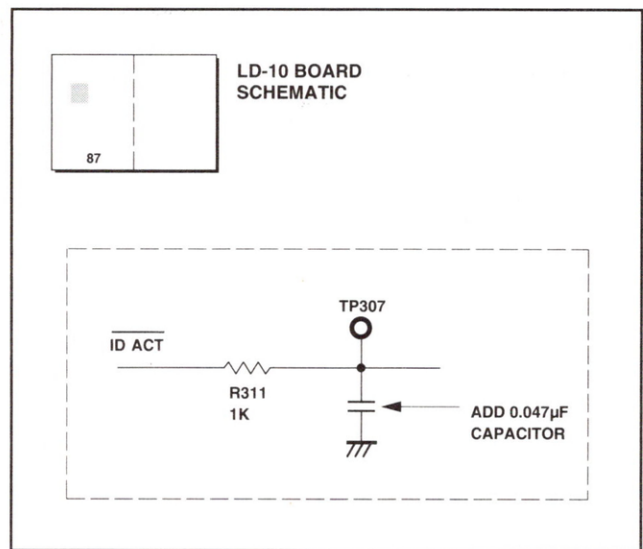


Figure 1

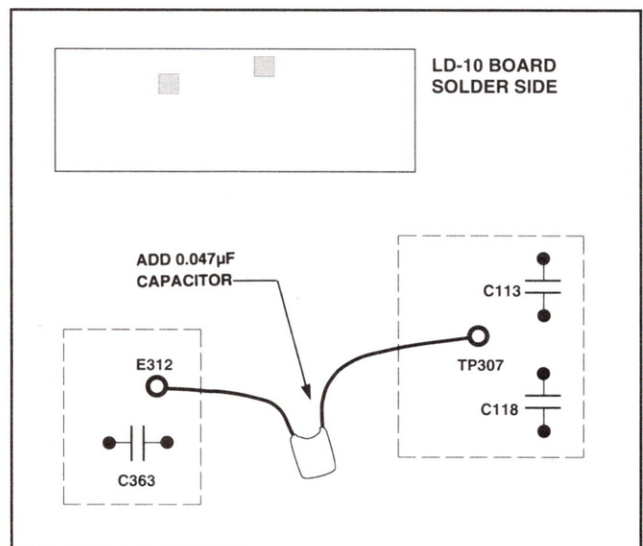


Figure 2

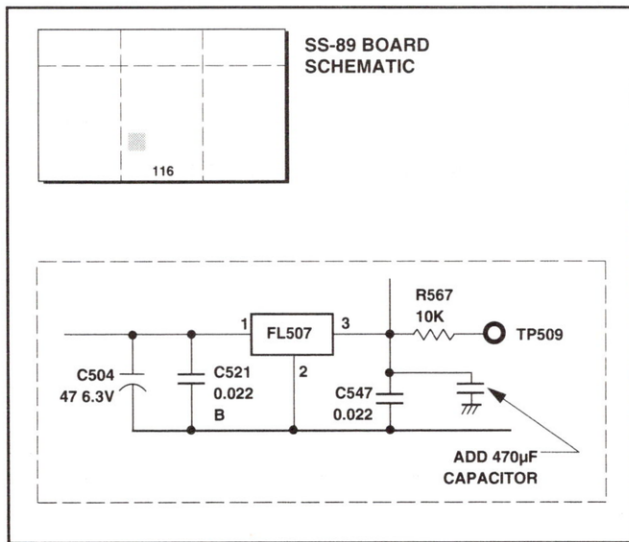


Figure 3

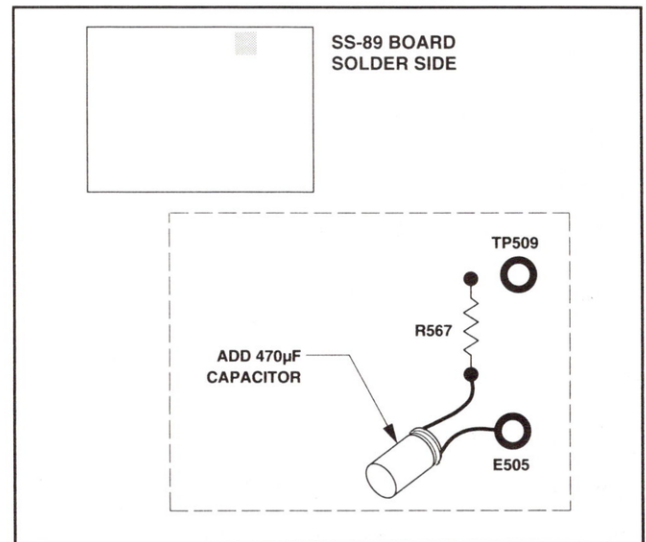


Figure 4

Display

Date: **April 6, 1992**Subject: **BRIGHTNESS ADJUSTMENT GUIDELINE**Model: **ALL JUMBOTRON**Serial No: **ALL****DESCRIPTION**

To ensure long life of a JumboTron screen, it is important that the brightness of cells and units be adjusted to the correct levels.

1. To assure uniform brightness across the screen, measure the brightness of several clean units across the screen and note their level. Calculate the average for the unit being serviced, and adjust only up to this average level.

2. When replacing a cell, measure the other cells in the unit (after cleaning) and note their level. Calculate the average brightness of all the cells. To adjust the brightness of the new cell, only adjust up to this average level.

Note: Never adjust the brightness of any cell or unit to the brightness of the screen when it was first installed; always use an average reading calculated on the day that adjustment is performed.

Display

Date: **April 6, 1992**

Subject: **PART REGISTRATION—LENS CAP**

Model: **RVP-6000Q**

Serial No: **ALL**

DESCRIPTION

The lens cap accessory (Sony part number 4-398-727-01) is now available as a stocked service item. Correct the RVP-6000Q Service Manual as shown in Figure 1.

	ACCESSORIES AND PACKING MATERIALS PARTS LIST		
Ref. No.	Part No.	Description	
	 4-398-727-01	CAP	
	 DELETE ASTERISK		

Figure 1

Display

Date: **April 6, 1992**

Model: **VPH-1270Q**

Serial No: **ALL**

Subject: **PART REGISTRATION—UPPER CASE
ASSEMBLY**

DESCRIPTION

The upper case of the control panel assembly is now available as a stocked service part. Update the VPH-1270Q Service Manual as shown in Figure 1.

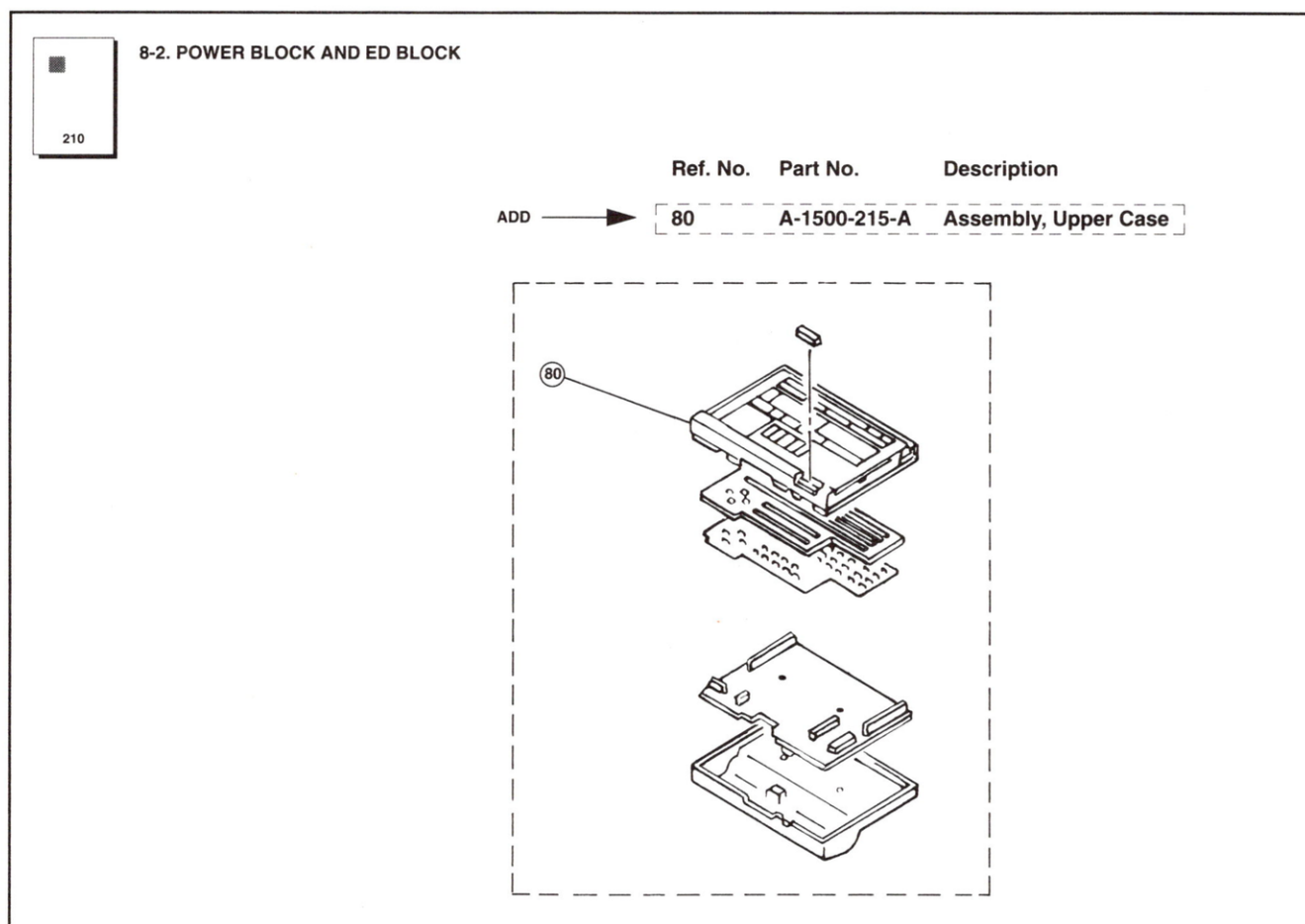


Figure 1

VTR

Date: **April 6, 1992**

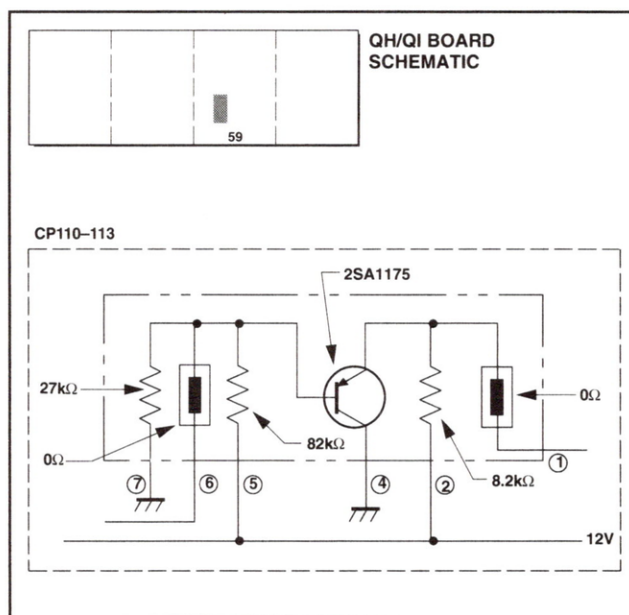
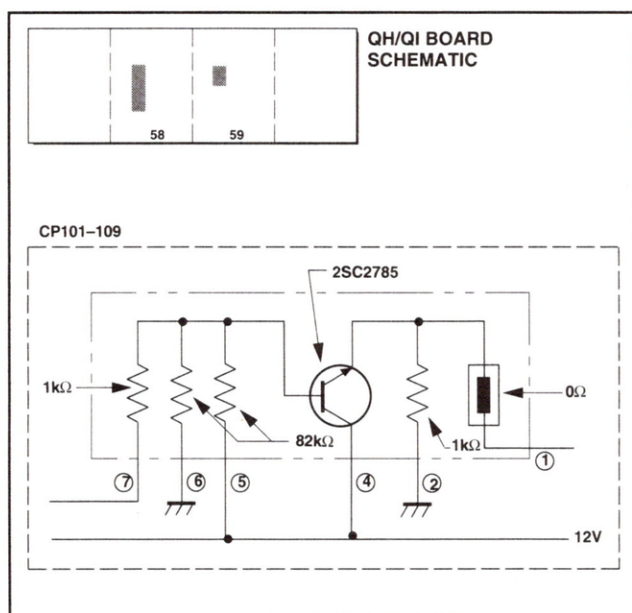
Model: **PVM-1340**

Serial No: **ALL**

Subject: **RESISTANCE VALUES FOR CP101-CP113**

DESCRIPTION

The resistance values of CP101-CP109 and CP110-CP113 on the QH and QI boards are shown in Figures 1 and 2, respectively.



Editor

Date: April 6, 1992

Subject: SETTING CONSTANT PARAMETERS

Model: BVE-900/910

Serial No: 10,001 AND HIGHER

DESCRIPTION

When connecting the DVR-20/C20/28 (NTSC) units, or DVR-20P/C20P/28P (PAL) units to the BVE-900/910/9000/9100, set constants 1 and 2 as shown in Tables 1 and 2.

Table 1. Constant-1 Setup Values

Model	BYTE-1	BYTE-2	BYTE-3	BYTE-4	BYTE-5	BYTE-6	BYTE-7	BYTE-8
DVR-20	40	20	00	96	07	07	04	8A
DVR-C20	40	21	00	96	07	07	04	8A
DVR-28	40	22	00	96	07	07	04	8A
DVR-20P	41	20	00	70	07	07	04	8A
DVR-C20P	41	21	00	70	07	07	04	8A
DVR-28P	41	22	00	70	07	07	04	8A

Table 2. Constant-2 Setup Values

Model	BYTE-1	BYTE-2	BYTE-3	BYTE-4	BYTE-5	BYTE-6	BYTE-7	BYTE-8*
DVR-20	0A	07	FC	00	81	5B	FF	5A
DVR-C20	0A	07	FC	00	81	5B	FF	5A
DVR-28	0A	07	FC	00	81	5B	FF	5A
DVR-20P	0A	07	FC	00	83	5B	FF	4A
DVR-C20P	0A	07	FC	00	83	5B	FF	4A
DVR-28P	0A	07	FC	00	83	5B	FF	4A

* Set BYTE-8 only in BVE-9000/9100.

Videodisc

Date: **April 6, 1992**

Subject: **IC REPLACEMENT—TC74HC221P**

Model: **LDP-1550**

Serial No: **104,000 AND LOWER**

DESCRIPTION

Production of IC3 (TC74HC221P) on the SV-32 board has been discontinued. If the former IC is unavailable during replacement, use TC74HC221AP, and simultaneously replace R7 (12k Ω) with an 11k Ω resistor and R24 (220k Ω) with a 150k Ω resistor.

Figure 1 shows placement of components.

Former	New
IC3 (TC74HC221P) 8-759-203-08	IC3 (TC74HC221AP) 8-759-239-59
R7 (12k Ω) 1-249-430-11	R7 (11k Ω) 1-215-446-00
R24 (220k Ω) 1-247-887-00	R24 (150k Ω) 1-247-883-00

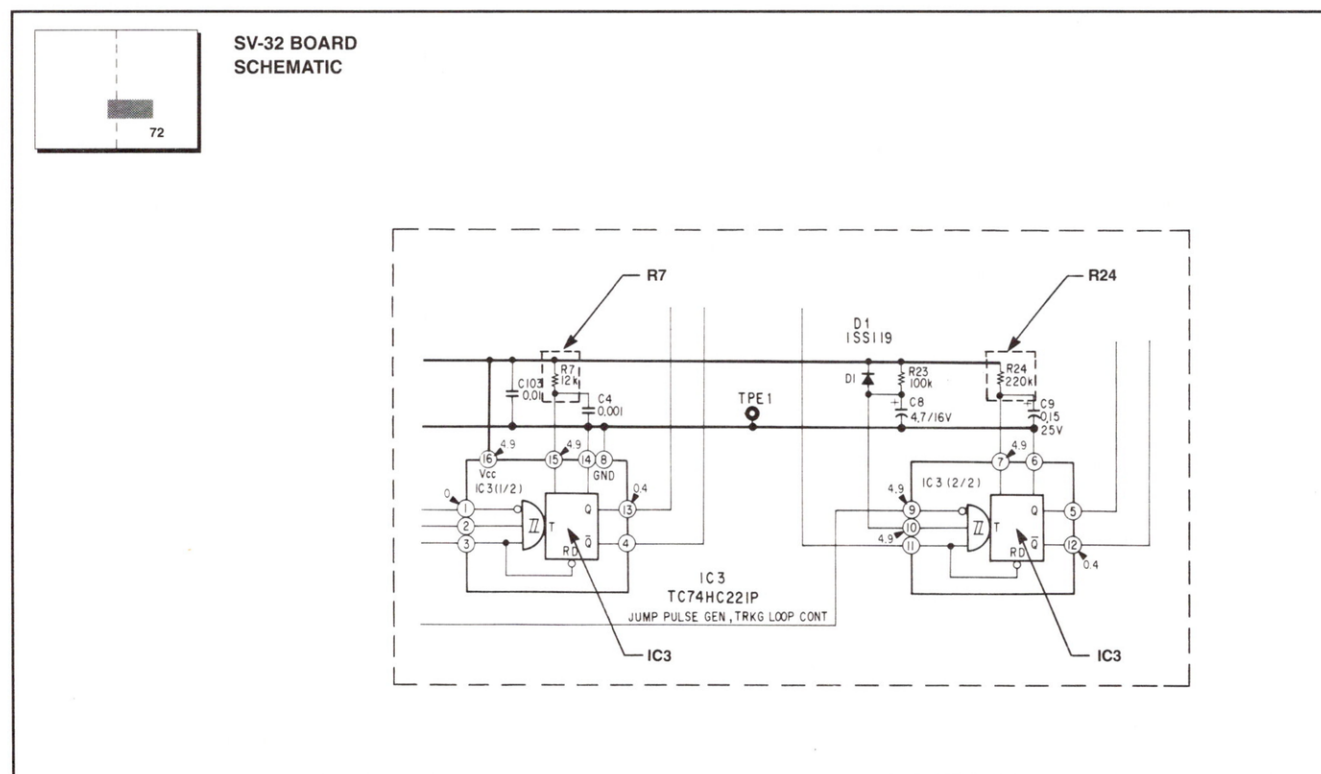


Figure 1

Sony Corporation of America
Business and Professional Group
Technical Publications
677 River Oaks Pkwy, San Jose, California 95134

Display

Date: April 6, 1992

Subject: D2 BOARD MODIFICATION

Model: PVM-3230

Serial No: 2,000,001-2,000,800

DESCRIPTION

To improve the reliability of D2507 on the D2 board in a high temperature environment, replace R2550 as shown in Figure 1.

PARTS REQUIRED

Part No.	Description	Qty.
1-215-890-11	Res, Metal, 470Ω, 2W	1

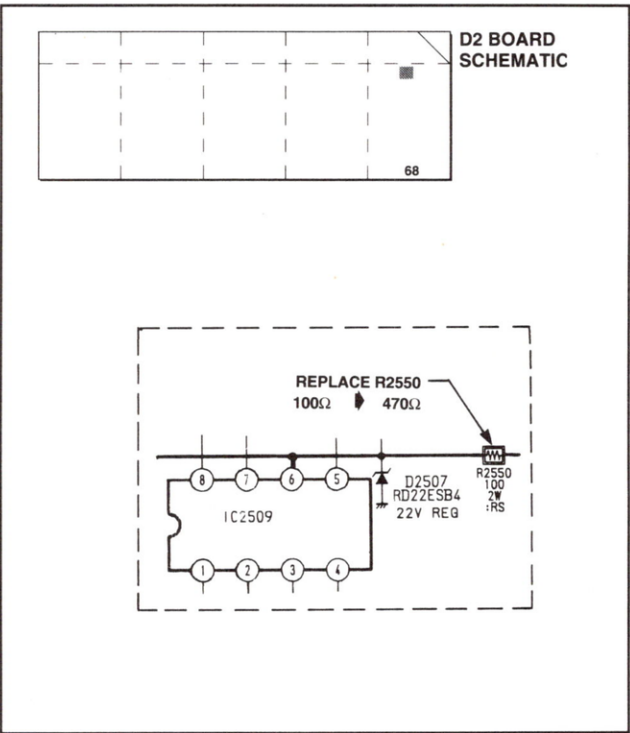


Figure 1

Camera

Date: **April 6, 1992**

Model: **CA-325/327**

Serial No: **10,001-13,740 (CA-325)**
10,001-11,380 (CA-327)

Subject: **HORIZONTAL STREAK NOISE ON VIEWFINDER SCREEN**

DESCRIPTION

When a CA-325/327 is used with a DXC-325/327/537 near a fluorescent light, horizontal black or white streak noise may appear on the viewfinder screen.

To correct this, modify the CA-13 (CA-325) or CA-15 (CA-327) board by soldering a $0.01\mu\text{F}$ capacitor in parallel with R23 (zone J-2/CA-13, zone B-3/CA-15), as shown in Figures 1 and 2.

NOTE: The CA-325 and CA-327 Service Manuals can be found near the rear of the DXC-325 and DXC-327 Service Manuals, respectively.

PARTS REQUIRED

Part No.	Description	Qty.
1-164-232-11	Cap, Ceramic Chip, $0.01\mu\text{F}$ (C48/CA-13, C67/CA-15)	1

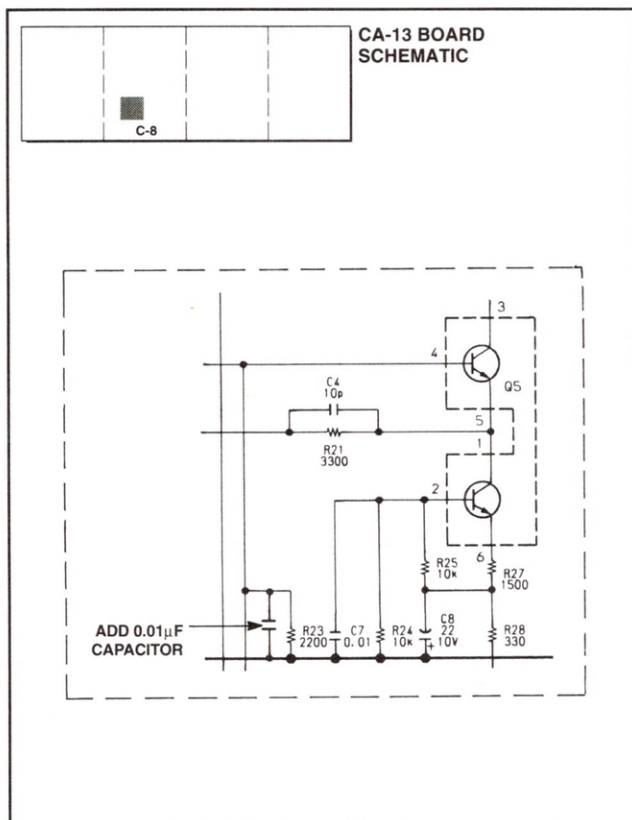


Figure 1

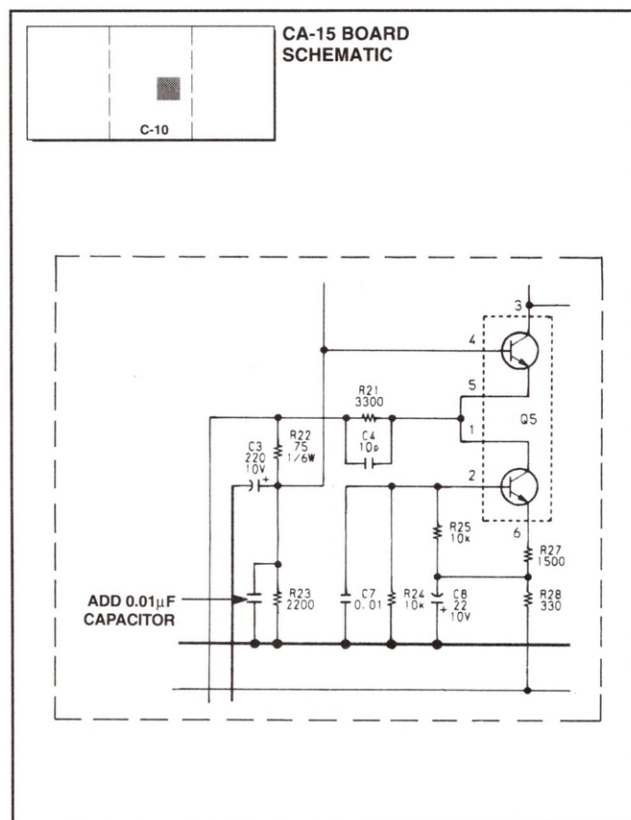


Figure 2

VTR

Date: **March 16, 1992**

Model: **PVW-2600/2800**

Serial No: **SEE TEXT**

Subject: **FIRMWARE UPGRADE—VERSION 1.11
 SERVO AND VERSION 2.02 SYSTEM**

DESCRIPTION

Version 1.11 servo and version 2.02 system firmware are now available as a kit.

PARTS REQUIRED

Part No.	Description	Qty.
EPVW/01	Version 1.11 EPROM (IC607/SS-48)	1
	Version 2.02 EPROM (IC7/SS-48)	1

CAUTION: EPROMS are easily damaged by static electricity. Ensure that the equipment is powered OFF and that you are grounded to the unit with a cable that contains a 1M Ω resistor between you and GND when installing EPROMs. Work with caution when grounded to the unit.

1. VERSION 1.11 SERVO FIRMWARE

Applicable serial numbers: 10,001–10,870

PROGRAM IMPROVEMENTS

- When 01 or 09 error occurs after threading is completed, the threading motor is now prevented from over-heating.

INSTALLATION

To install the new firmware, replace IC607 (zone D-2) on the SS-48 board with the new EPROM. Ensure that no errors occur during power up.

2. VERSION 2.02 SYSTEM FIRMWARE

Applicable serial numbers:

PVW-2600	10,001–11,900
PVW-2800	10,001–12,150

INSTALLATION

It is necessary to install the new firmware when the TBC microcomputer is replaced. To install the new firmware, replace IC7 (zone M-4) on the SS-48 board with the new EPROM.

Upon initial power up, an "ERROR 96" (NVRAM TROUBLE) may sometimes appear. This error can be cleared by either powering up again, pressing the reset switch on the SS-48 board, or initializing the setup menu.

It is important to note that the setup menu defaults to the original factory settings when the new EPROM is installed, and that any previously entered user-programmed settings must be re-entered.

FIRMWARE ORDERING INFORMATION

To purchase the new firmware, contact:

Sony Operations and Technical Services
National Broadcast Parts Distribution Center
 677 River Oaks Parkway
 San Jose, CA 95134
 (800) 538-7550
 Telex: ITT 474-5063
 Fax: (408) 432-0402

VTR

Date: **May 4, 1992**

Subject: **MANUAL CORRECTION—RF DET LEVEL
ADJUSTMENT**

Model: **EVO-9800A**

Serial No: **11,601 AND HIGHER**

DESCRIPTION

Add the servo system alignment procedure shown in Figure 1 after section 8-12 in the EVO-9800A Service Manual, Volume 1. Renumber section 8-13 Capstan FG Adjustment accordingly.

8-13 RF DET LEVEL ADJUSTMENT

Machine condition for adjustment	Specification	Adjustment Location
Step 1 E-E mode	TP800/DI-11 (A-4) Take note of value	
Step 2	TP3/DI-11 (A-4) A +0.1/-0 Vdc	RV403/DI-11 (B-5)

Figure 1

VTR

Date: **May 4, 1992**

Subject: **PARTS REGISTRATION—ROTARY
 ENCODER AND CONNECTION CORD**

Model: **SVRM-100**

Serial No: **ALL**

DESCRIPTION

The rotary encoder and ST plug connection cord have been registered as service parts. Update the SVRM-100 Service Manual exploded view and electrical parts list as shown in Figures 1 and 2.

EXPLODED VIEW			
			
No.	Parts No.	SP	Description
6	Pending	s	JOG SHUTTLE DIAL
	1-466-730-11	s	ENCODER, ROTARY

Figure 1

ELECTRICAL PARTS LIST			
			
Ref. No. or Q'ty	Parts No.	SP	Description
JC1	Pending	s	CONNECTION CORD
		↓	
	1-690-995-11	s	CORD, CONNECTIONS (ST PLUG)
1pc	Pending	s	JOG SHUTTLE DIAL
		↓	
	1-466-730-11	s	ENCODER, ROTARY

Figure 2

VTR

Date: **May 4, 1992**

Subject: **MANUAL CORRECTIONS**

Model: **VO-9600H**

Serial No: **10,001 AND HIGHER**

DESCRIPTION

Correct the VO-9600H Service Manual as shown in Figures 1 through 6.

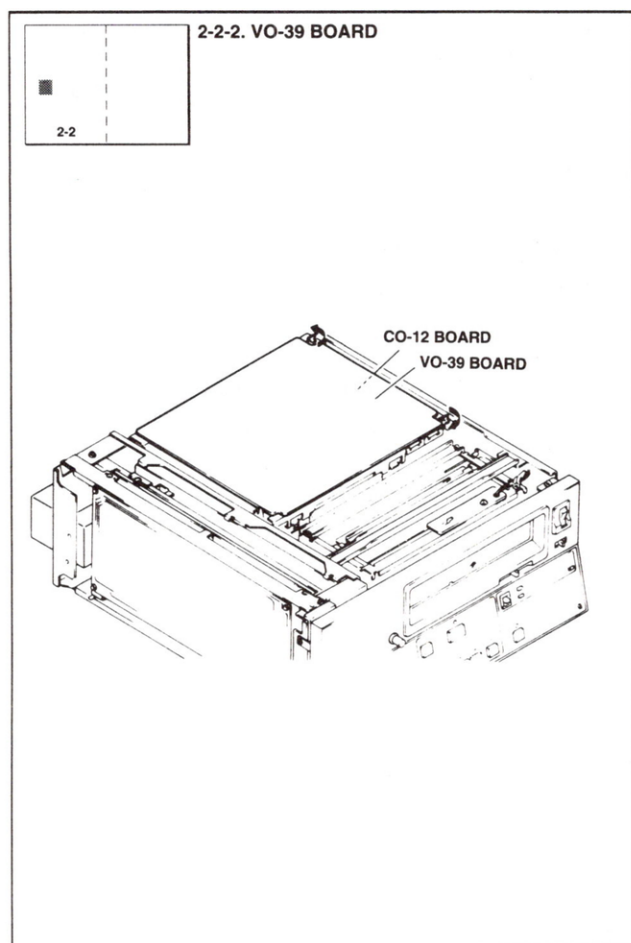


Figure 1

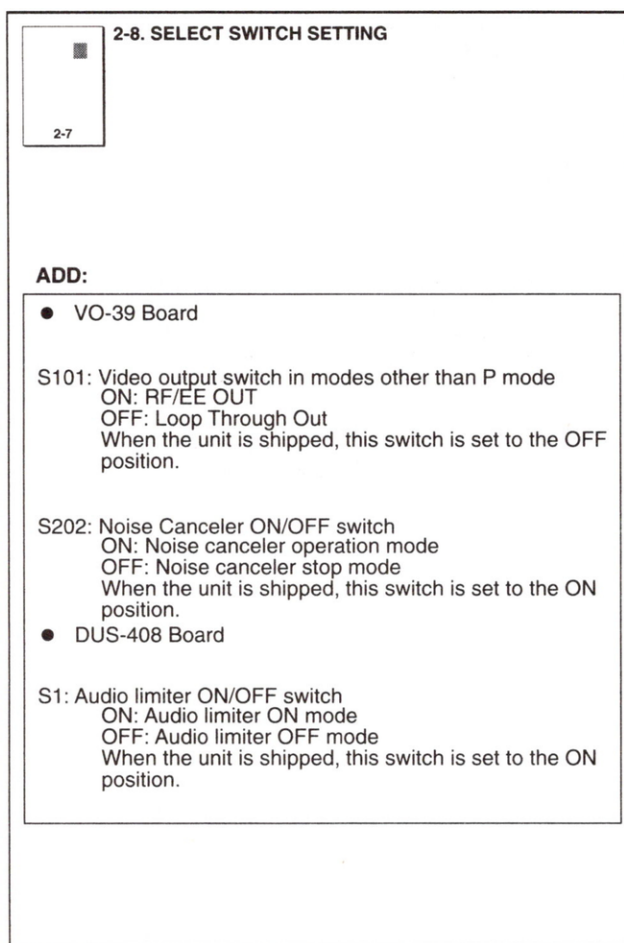


Figure 2

15-23 AC-125 BOARD PARTS LIST			
Ref. No. or Q'ty	Part No.	SP	Description
1pc	1-640-626-11	O	PRINTED CIRCUIT BOARD, AC-125
	↓		
	1-640-626-12		

Figure 3

15-35 SV-93H BOARD PARTS LIST			
This Board (Part No. 1-622-386-92) is used for the following unit.			
(J) Serial No. 10001 through 10041			10061
(UC) Serial No. 10001 through 10061			10061
(EK) Serial No. 10001 through 10041			10071

Figure 5

15-33 SV-93H BOARD PARTS LIST			
This Board (Part No. 1-622-386-91) is used for the following unit.			
(J) Serial No. 10001 through 10040			10060
(UC) Serial No. 10001 through 10060			10060
(EK) Serial No. 10001 through 10040			10070

Figure 4

15-38 SY-174 BOARD PARTS LIST			
Ref. No. or Q'ty	Part No.	SP	Description
IC12	8-759-945-41	S	IC MB88505-547M
	↓		
	8-759-066-34	S	IC MB88P505H- 101P-524Q

Figure 6

VTR

Date: **March 16, 1992**

Subject: **CASSETTE EJECTION AT
POWER ON/OFF**

Model: **PVW-2600/2800**

Serial No: **10,001-10,370**

DESCRIPTION

When power is turned ON with the cassette tape in the down position, the cassette may eject. (In normal operation, when cassette tape is down the unit enters stop mode.) To ensure proper cassette operation, perform the following modification procedure.

PARTS REQUIRED

Part No.	Description	Qty.
3-174-908-01	Stopper, Cassette	2

MODIFICATION PROCEDURE

(See Figure 1.)

1. Peel off backing sheet of two stoppers.
2. Attach stoppers to right and left ridges of chassis.

CONFIRMATION

Verify that loading of small and large cassettes functions normally.

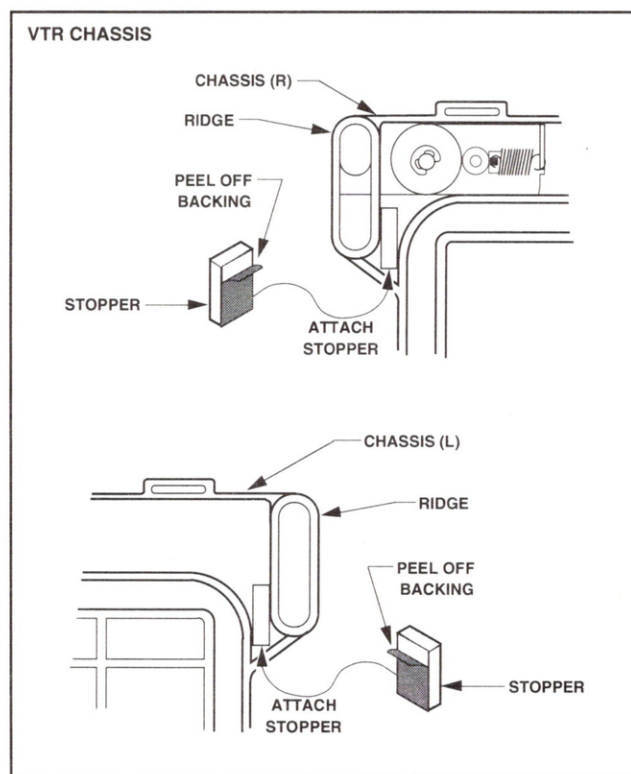


Figure 1

VTR

Date: **March 16, 1992**

Model: **PVW-2600/2800**

Serial No: **10,001-11,000**

Subject: **TAPE CUT DUE TO STATIC DISCHARGE
 FROM CASSETTE**

DESCRIPTION

The reel and the D/A converter on the DR-118 board may malfunction if the cassette shell emits a static discharge. In such a case, a tape cut may occur causing the unit to turn off.

To diminish the likelihood of such an occurrence, improve grounding of the cassette compartment of the VTR by performing the following modification procedure.

NOTE: To reset the VTR, turn the power ON and press the RESET button.

PARTS REQUIRED

Part No.	Description	Qty.
3-531-576-11	Nylon Rivet 3 x 4.5	1
7-623-422-07	Lockwasher, Type B, 3mm Diameter	1

NOTE: In addition to the parts listed above, the following modification procedure also requires:

- Harness with lug
- Copper foil tape, 4mm wide

MODIFICATION PROCEDURE

A. Disassembly

See Figure 1.

1. Turn red wheel counterclockwise to move stage, until two +k 2.6x4 screws securing left (L) and right (R) cassette guides are visible through opening A.

See Figure 2.

2. Loosen and remove (L) cassette guide:
 - a. Remove +k 2.6x4 screw.
 - b. Extract boss and projection from corresponding holes on PC-62 board and stage.
 - c. Remove (L) cassette guide while detaching lever.

See Figure 3.

3. Remove (R) cassette guide:
 - a. Remove +k 2.6x4 screw.
 - b. Extract bosses and projection from corresponding holes on PC-62 board and stage.
 - c. Remove (R) cassette guide.

See Figure 4.

4. Turn red wheel counterclockwise to move stage, so that guide roller A moves 5 to 10mm away from end of groove A of chassis (R) assembly.

See Figure 5.

5. Remove In switch (R):
 - a. Unhook spring from hook retainer on stage.
 - b. Move In switch (R) in direction A, until it stops.
 - c. Remove In switch (R).

See Figure 6.

6. Remove In switch (L):
 - a. Unhook spring from hook retainer on stage.
 - b. Move In switch (L) in direction A, until it stops.
 - c. Remove switch (L).

See Figures 7 and 8.

7. Remove PC-62 board:
 - a. Use flat blade screwdriver or tweezers at areas A and B between stage and PC-62 board, to detach circuit board, as shown in Figure 7.
 - b. Move PC-62 board in direction of arrow shown in Figure 8, to release hook A from hook retainer A.
NOTE: If PC-62 board does not move, push edge of hole B with screwdriver in arrow direction, while holding chassis (L) to prevent damage.
 - c. Extract PC-62 board, pulling it upward.

See Figure 9.

8. Solder copper foil tape on PC-62 board:
 - a. Remove insulating plate from solder side of PC-62 board.
 - b. Cut 4mm copper foil tape to a length of 20 to 25mm.
 - c. Attach copper foil tape to GND side of PH3 diode on PC-62 board, and solder as shown in Figure 9.

B. Assembly**See Figure 10.**

9. Mount insulating plate on solder side of PC-62 board, allowing $\pm 0.5\text{mm}$ in reference to A and B as shown in Figure 10.

Refer to Figure 8.

10. Mount PC-62 board:
 - a. Insert hooks B, C, and D in respective hook retainers.
 - b. Move PC-62 board in opposite direction of arrow, to align round holes A and B with same holes on stage.
 - c. Insert hook A in hook retainer A.

Refer to Figure 6.

11. Mount In switch (L):
 - a. Insert two shafts on stage in each semicircle of oblong holes on In switch (L).
 - b. Latch spring hook on In switch (L) into hook retainer on stage.

CAUTION: Be careful not to crush spring hook.

Refer to Figure 5.

12. Mount In switch (R):
 - a. Insert two shafts on stage in each semicircle of oblong holes on In switch (R).
 - b. Latch spring hook on In switch (R) into hook retainer on stage.

CAUTION: Be careful not to crush spring hook.

Refer to Figure 1.

13. Turn red wheel clockwise to move stage, until two screw holes for +k 2.6x4 screws that will secure left (L) and right (R) guides are visible through opening A.

Refer to Figure 3.

14. Mount (R) cassette guide:
 - a. Insert projection and bosses in corresponding holes on PC-62 board and stage.
 - b. Tighten two +k 2.6x4 screws.
 - c. Apply screw locking compound as shown in Figure 3.

Refer to Figure 2.

15. Mount (L) cassette guide:
 - a. Insert lever, projection, and boss in corresponding holes on PC-62 board and stage.
 - b. Tighten two +k 2.6x4 screws.
 - c. Apply screw locking compound as shown in Figure 2.

See Figure 11.

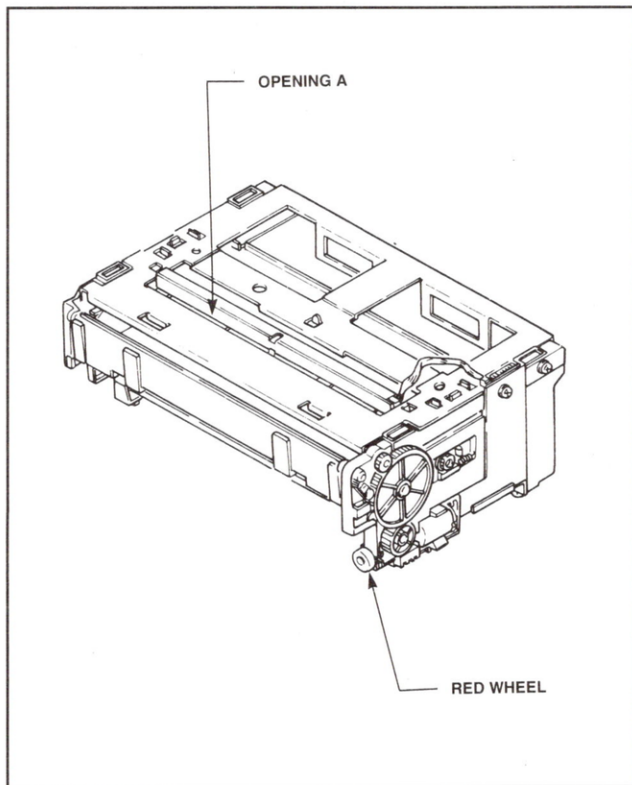
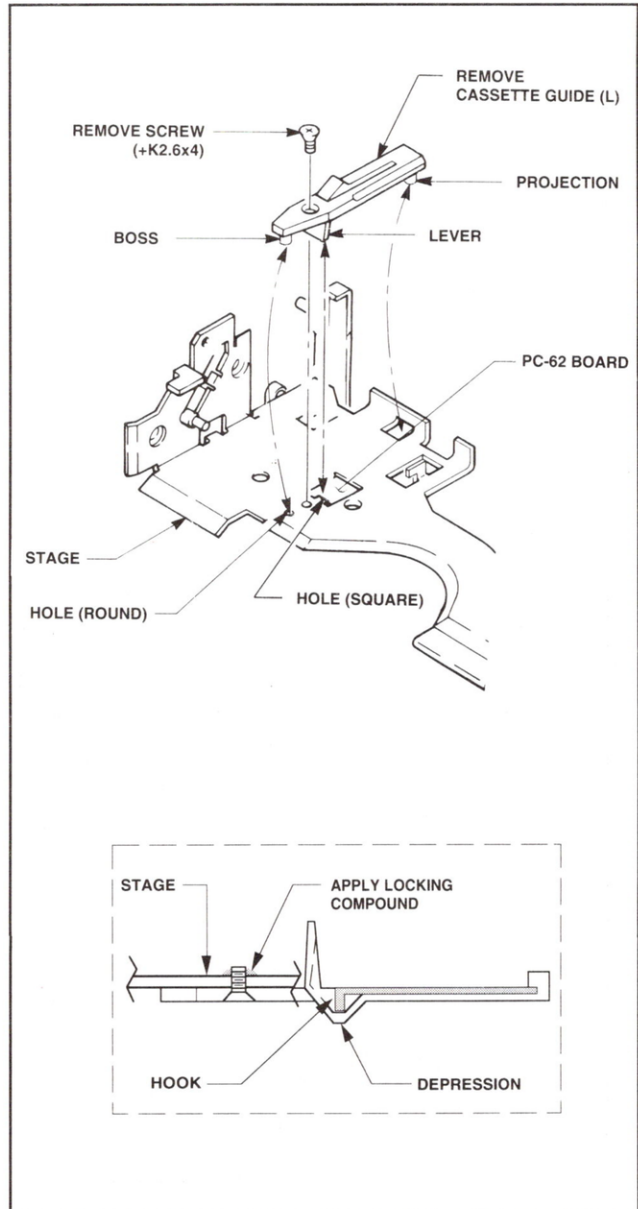
16. Install GND harness:
 - a. Insert harness with lug and lockwasher 3mm diameter (with burrs facing downward) in nylon rivet 3x4.5.
 - b. Insert nylon rivet (with harness lug and washer) in hole A (Figure 11), pressing on rivet head.
 - c. Move harness with lug right and left by about 30 degrees three times, as shown in Figure 11.
 - d. Solder end of harness with lug between pins 5 and 6 of CN930 on CL-25 board, and bend harness along edge of CL-25 board, as shown in Figure 11.
 - e. Verify that current flows between screw and any shaft of stage. If current does not flow, repeat step 16-c.

17. Adjust timing belt tension:

- a. Turn red wheel clockwise to move stage until it stops.
- b. Loosen, then tighten, screws A and B, shifting (R) and (L) chassis in direction of arrow, as shown in Figure 11.

VERIFICATION PROCEDURE

Verify normal operation of cassette compartment assembly.

**Figure 1****Figure 2**

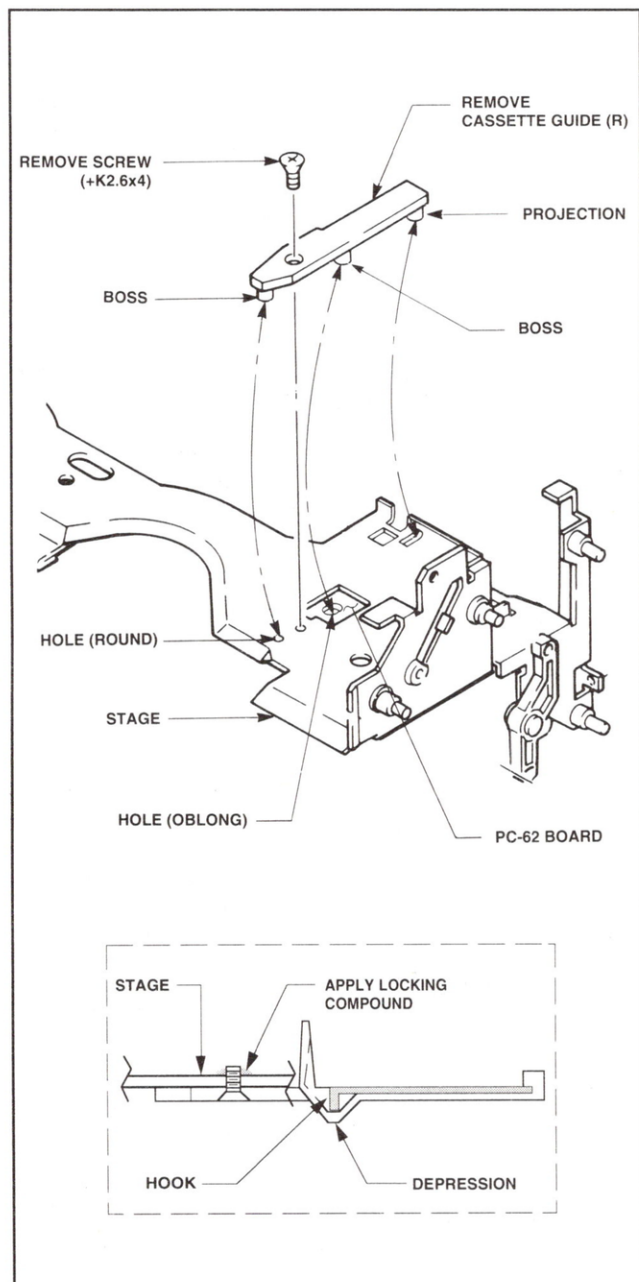


Figure 3

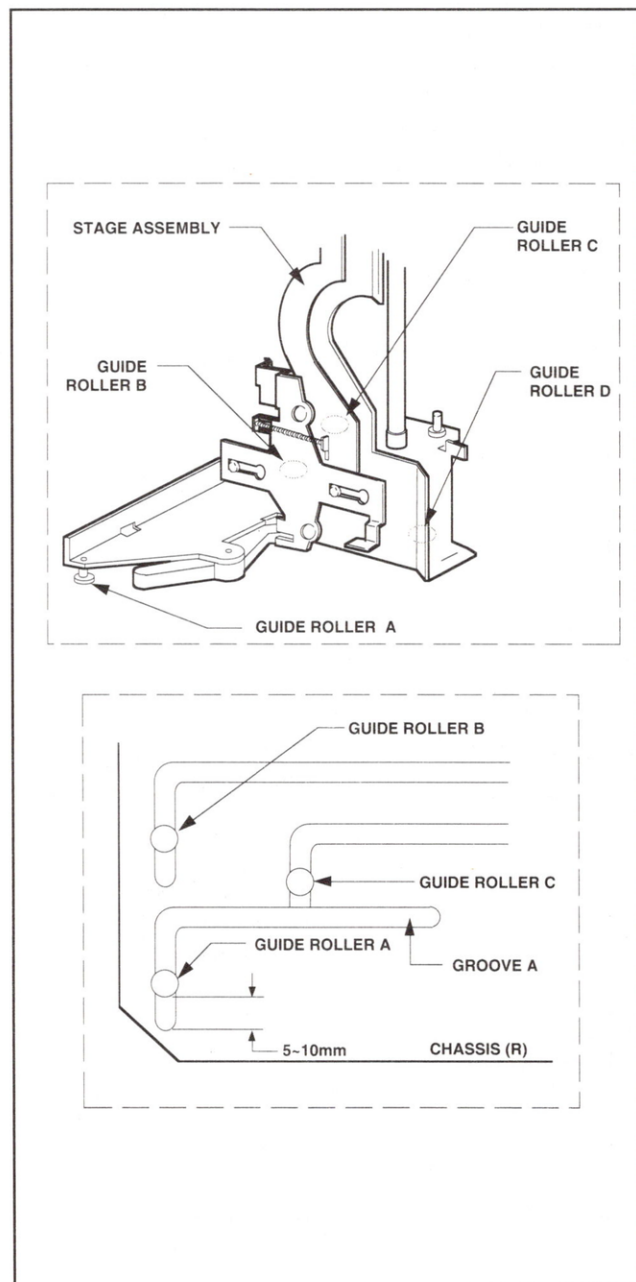


Figure 4

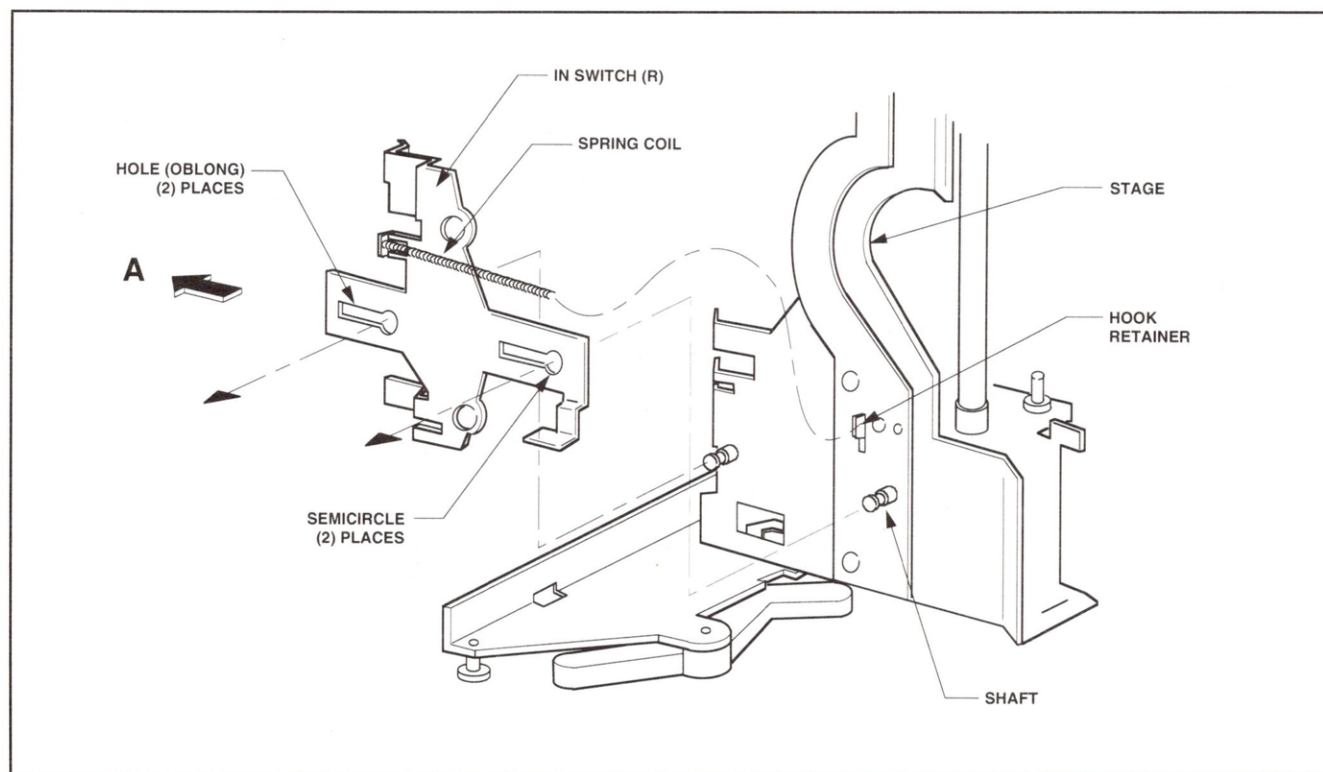


Figure 5

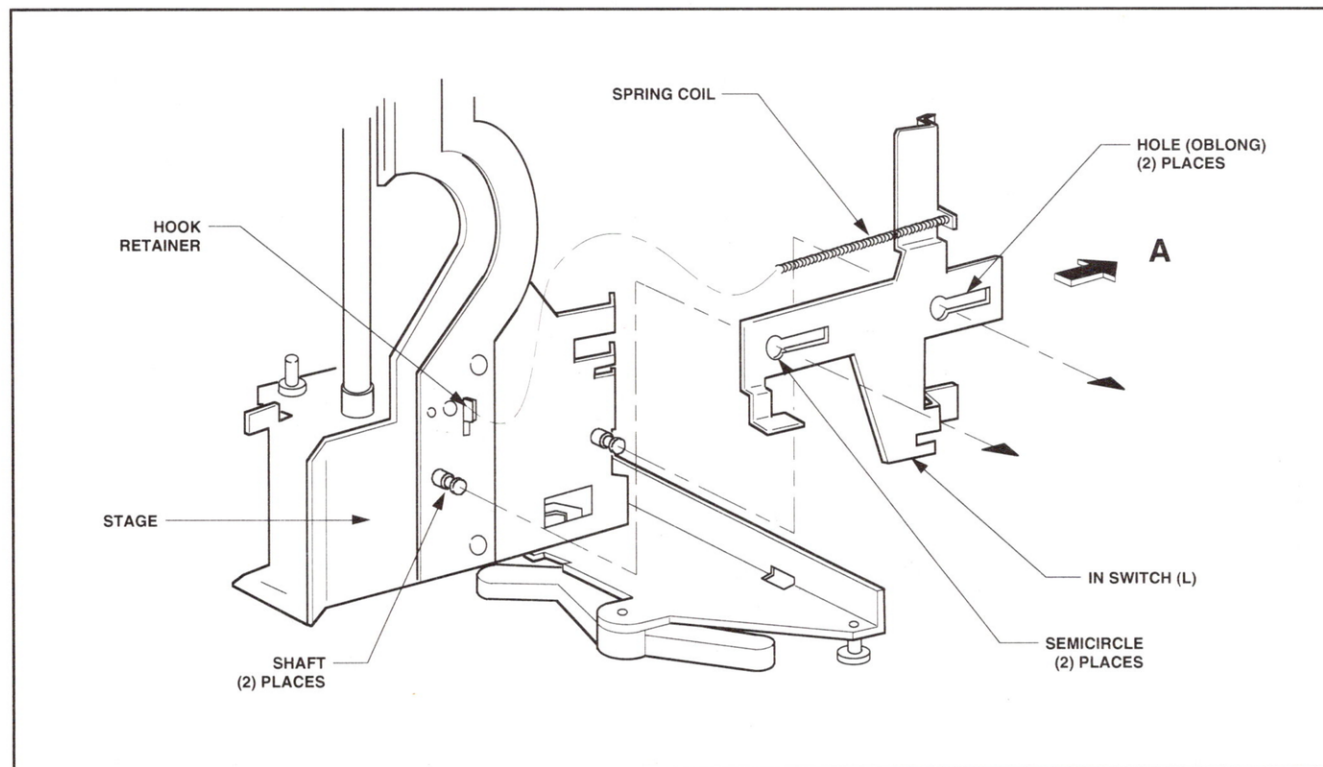


Figure 6

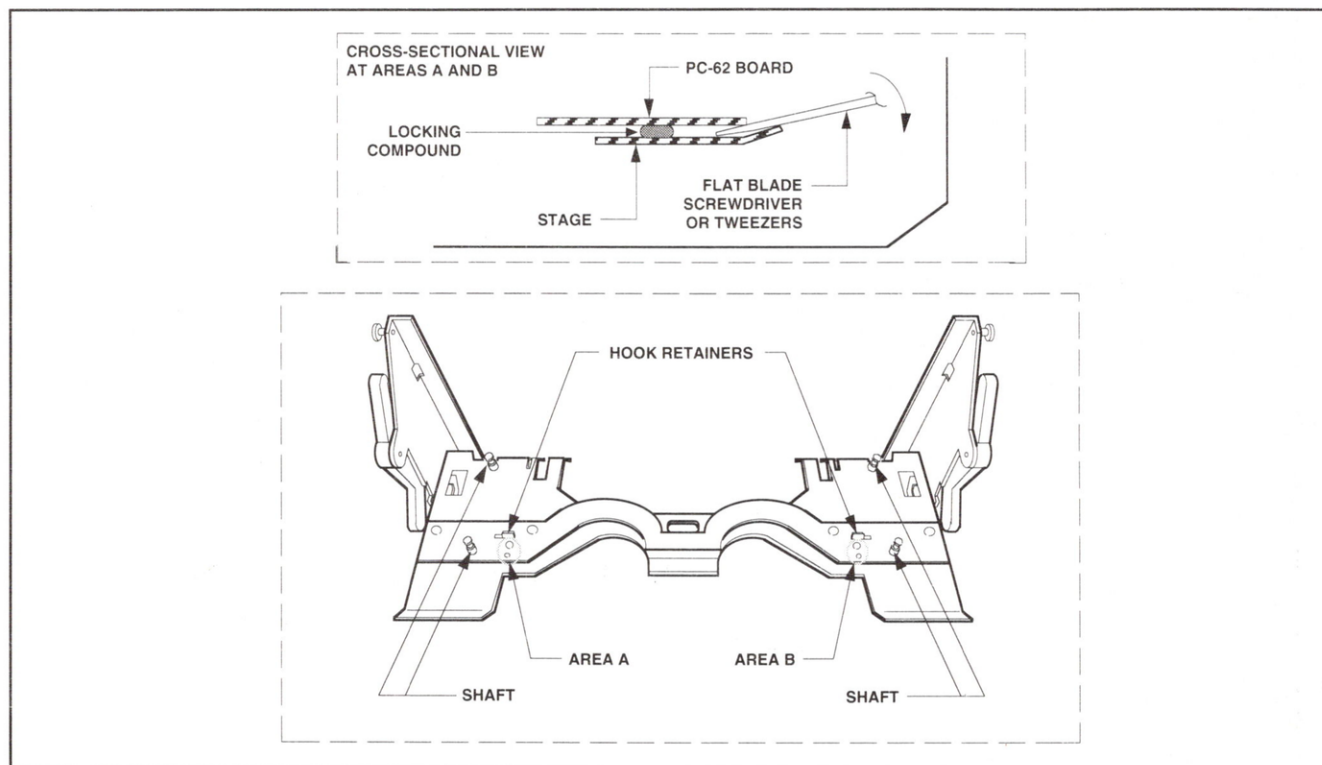


Figure 7

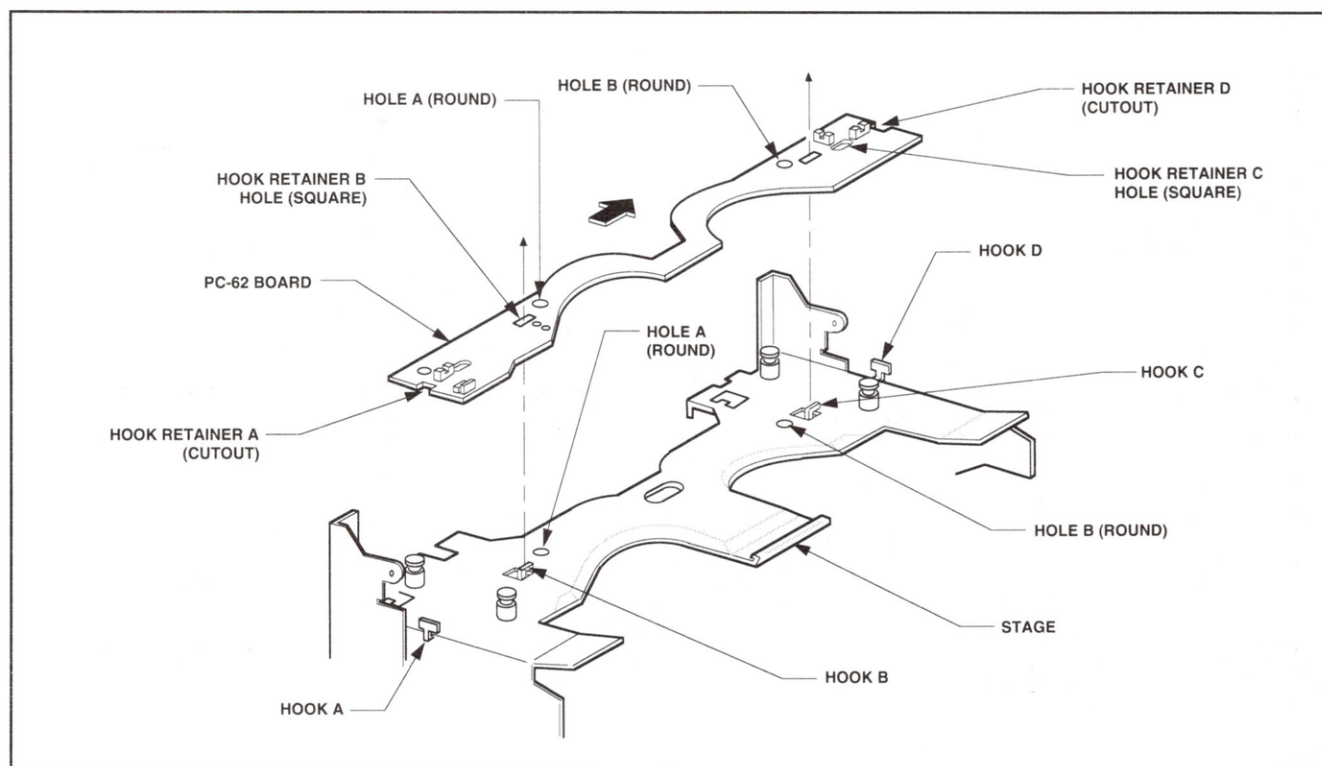


Figure 8

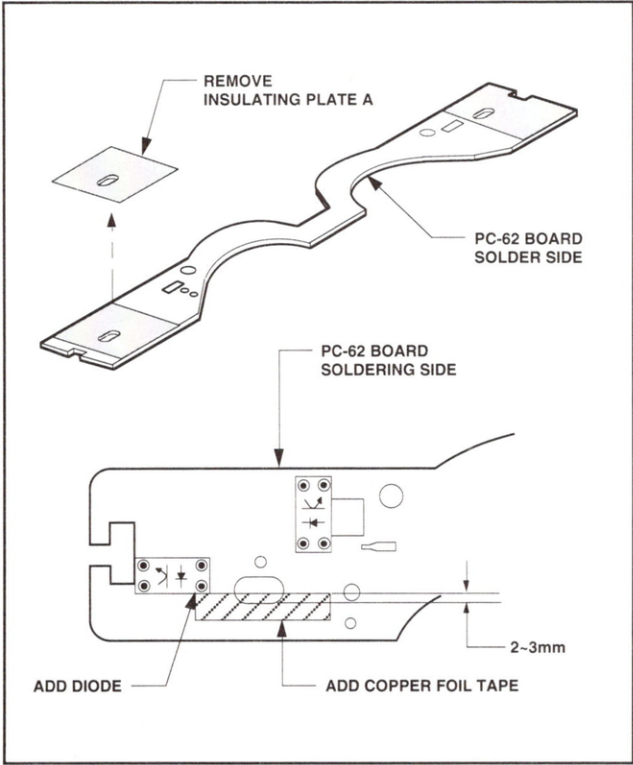


Figure 9

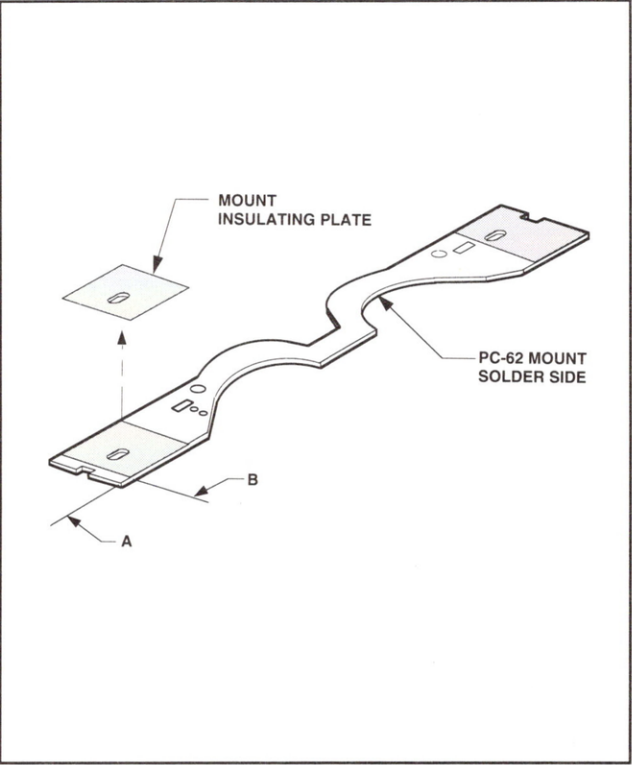


Figure 10

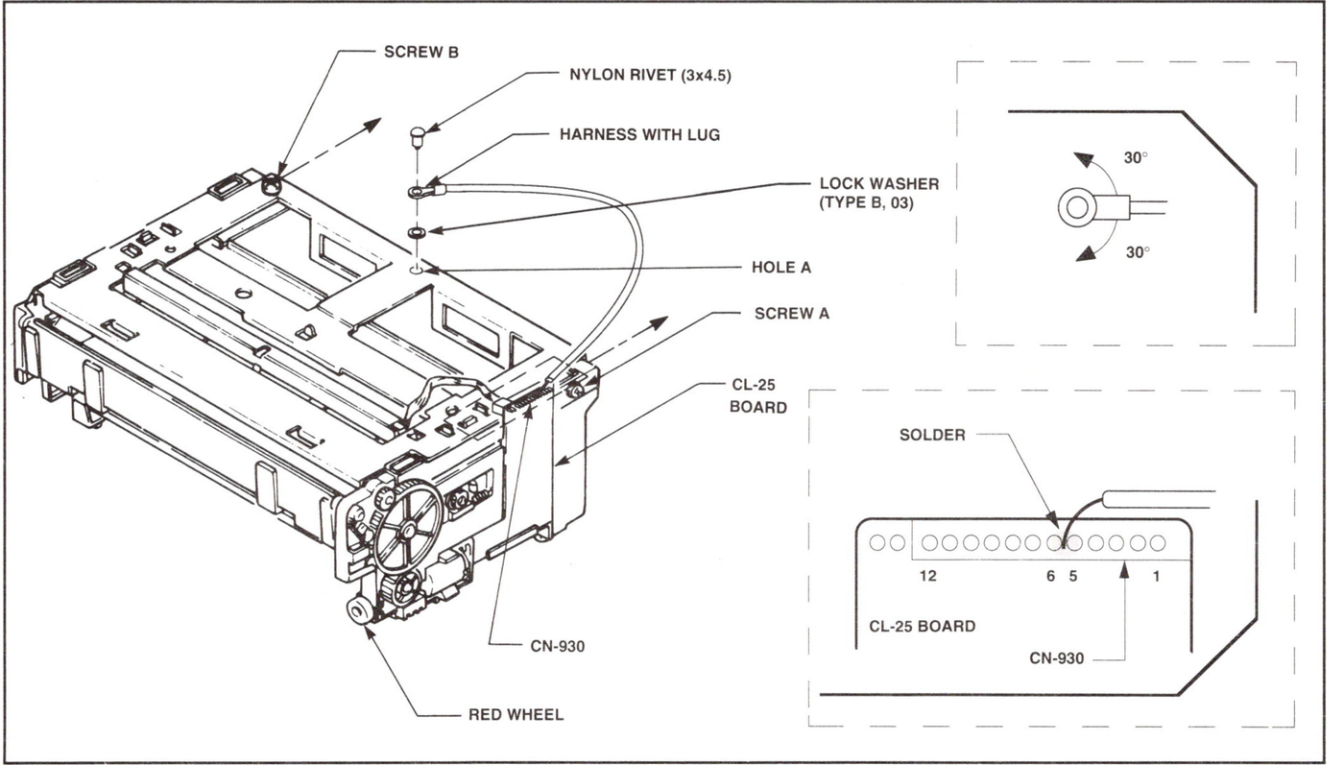


Figure 11

Videodisc

Date: **June 15, 1992**

Subject: **PART REGISTRATION—CLEANING
 BRUSH**

Model: **LVA/LVR SERIES**

Serial No: **ALL**

DESCRIPTION

The cleaning brush assembly (part number A-8019-036-A) is now available as a service part.

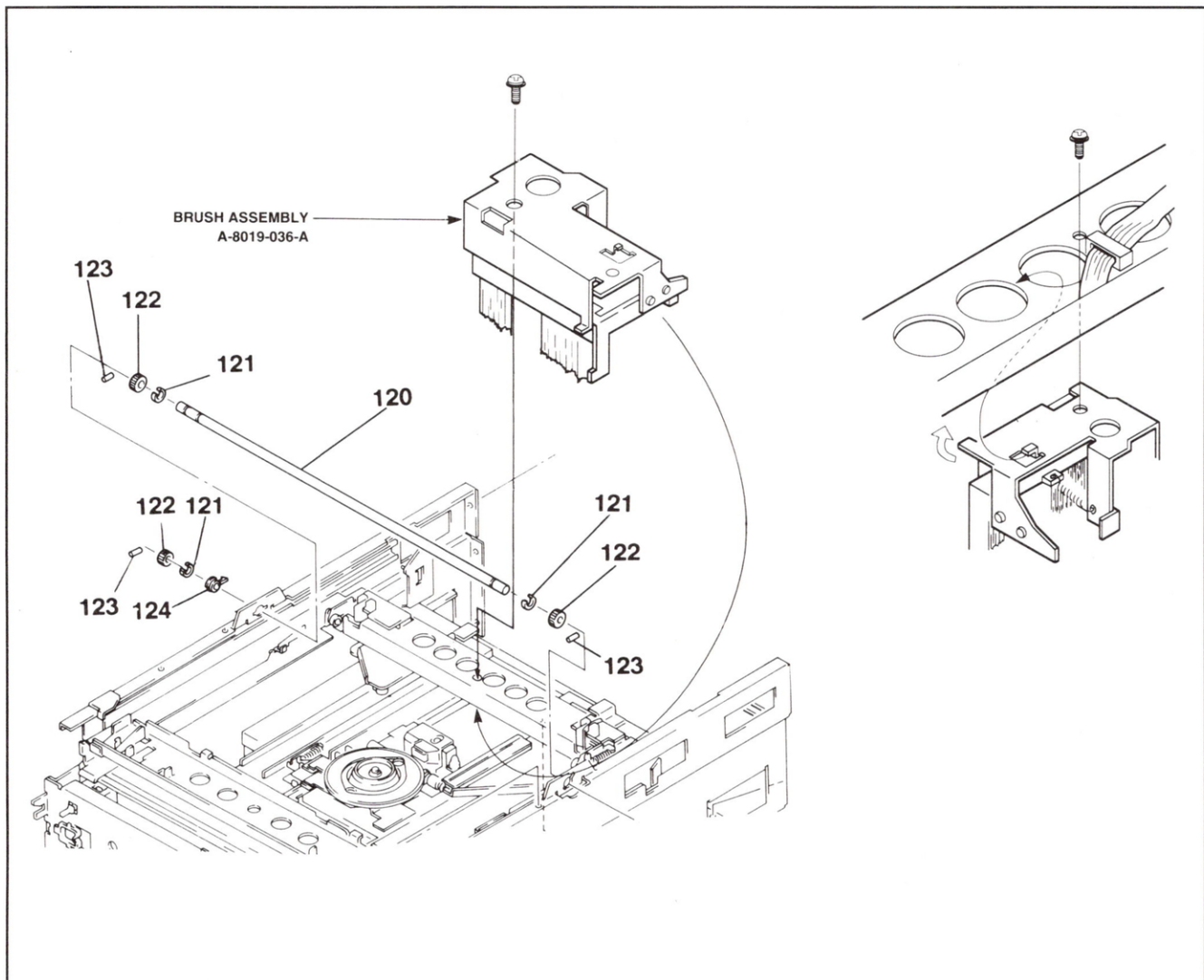


Figure 1

MulticassetteDate: **June 15, 1992**Subject: **MANUAL CORRECTION—CPU-51
BOARD**Model: **VL-DC1, VL-PS1, MPXS-3232**Serial No: **ALL****DESCRIPTION**

Correct the following sections of the VLCS-800 Service Manual, Volume 2 as shown in Figures 1 and 2.

- VL-DC1 Device Control Unit
- VL-PS1 Program Selector Unit
- MPXS-3232 Multiplex Switcher

CPU-51 BOARD
PAGE 8-10 (VL-DC1)
PAGE 8-11 (VL-PS1)

Ref. No.	Part No.	SP	Description
IC35	8-759-321-64	s ↓	IC HM6264LP-15
	8-759-514-31	s	IC MS6264CLL-10PC

Figure 1

CPU-51 BOARD
PAGE 8-11 (MPXS-3232)

Ref. No.	Part No.	SP	Description
IC35	8-752-331-09	s ↓	IC CXK5864BP-12LL
	8-759-514-31	s	IC MS6264CLL-10PC

Figure 2

VTR**Date: March 30, 1992****Subject: RESOLVING "ERROR 09" MESSAGE****Model: PVW-2600/2800****Serial No: 10,071-10,870 (PVW-2600)**
10,071-10,870 (PVW-2800)**DESCRIPTION**

When oscillation occurs in the threading motor, the "error 09" message appears.

To prevent such an occurrence, remove capacitor C102 from the DR-118/118A board (solder side, zone J-2).

Display

Date: **June 29, 1992**

Subject: **BATTERY COMPARTMENT PLATE**

Model: **PVM-8041Q**

Serial No: **2,000,500 AND LOWER**

DESCRIPTION

The battery compartment plate may sometimes protrude out of the compartment when the blue tape is removed. To correct this, push the plate down and inward as shown in Figure 1.

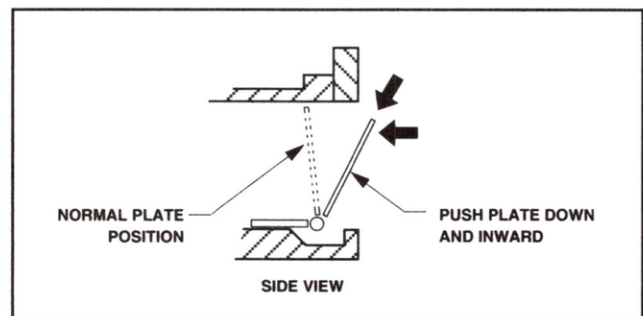


Figure 1

Display

Date: June 29, 1992

Subject: SECAM INPUT PICTURE NOISE

Model: VPH-1251Q/1271Q

Serial No: 5,000,300 AND LOWER (VPH-1251Q)
5,000,480 AND LOWER (VPH-1271Q)

DESCRIPTION

When a SECAM signal with ID is input, blue or red horizontal noise may sometimes appear at the top of the screen. To correct this, modify the BA board as described below.

PARTS REQUIRED

Part No.	Description	Qty.
1-249-419-11	Res, 1.5k Ω	3

MODIFICATION PROCEDURE

BA Board

(See Figures 1 and 2.)

1. Add 1.5k Ω resistor (R410) between IC8 pin 15 and +5V.
2. Add 1.5k Ω resistor (R411) between IC8 pin 17 and +5V.
3. Add 1.5k Ω resistor (R412) between IC8 pin 19 and +5V.

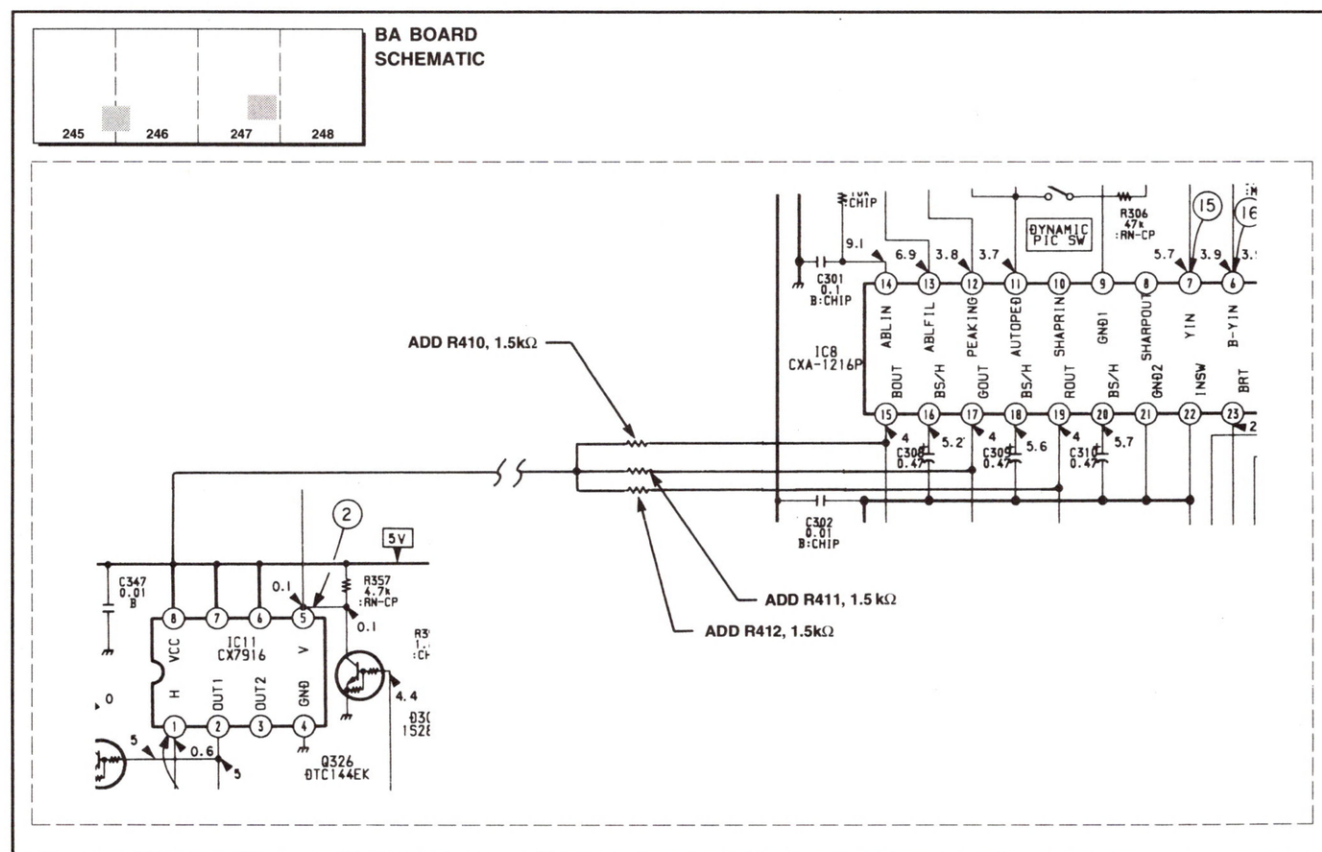


Figure 1

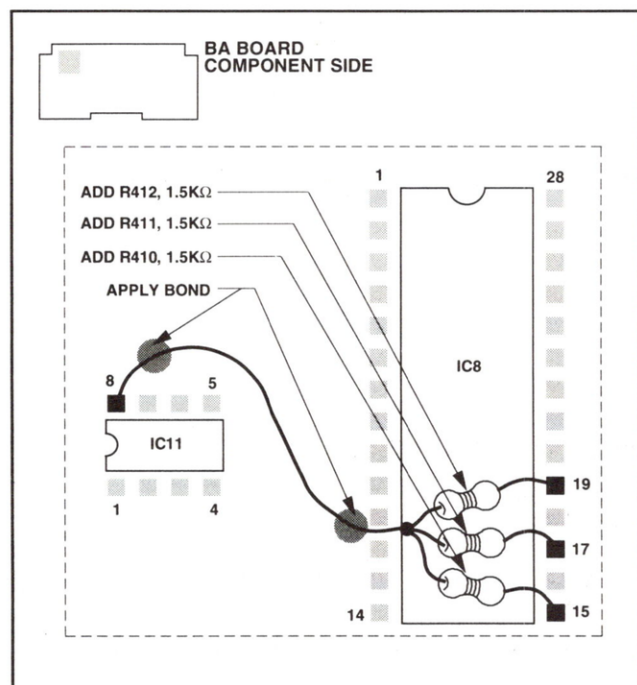


Figure 2

Display

Date: **June 29, 1992**

Subject: **INSTALLATION MANUAL
CORRECTIONS**

Model: **VPH-1251Q/1271Q**

Serial No: **5,000,001–5,000,200 (VPH-1251Q)**
5,000,001–5,000,380 (VPH-1271Q)

DESCRIPTION

Correct the VPH-1251Q/1271Q Installation Manual for Dealers as shown in Figures 1 through 9.

PAGE 3

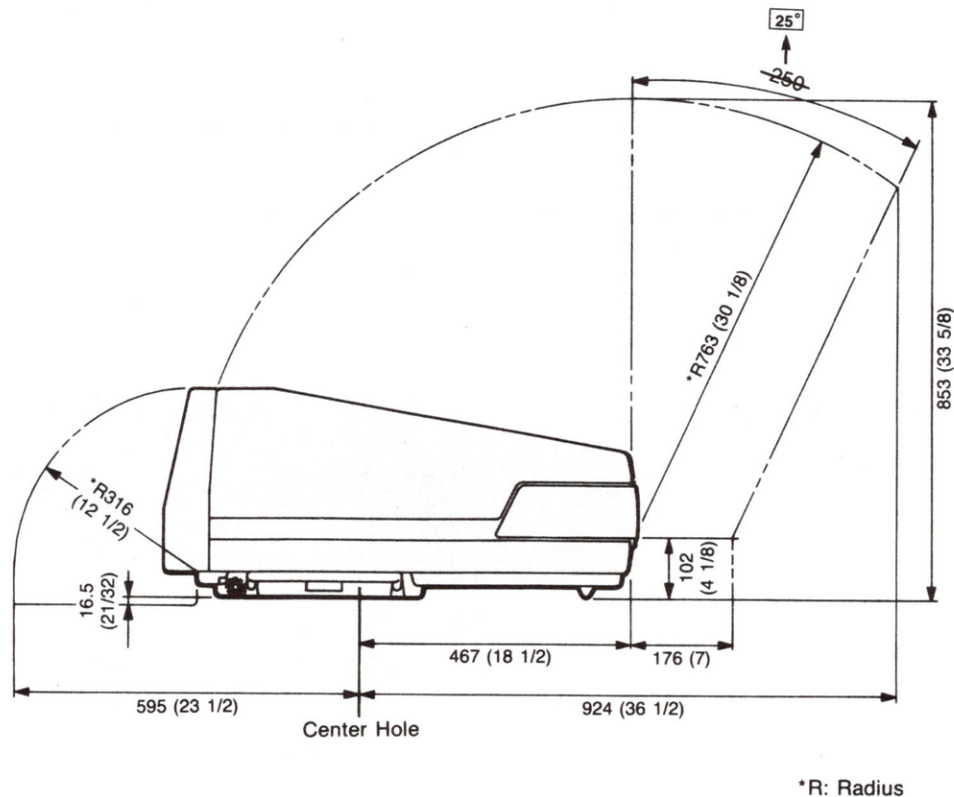


Figure 1

PAGE 42

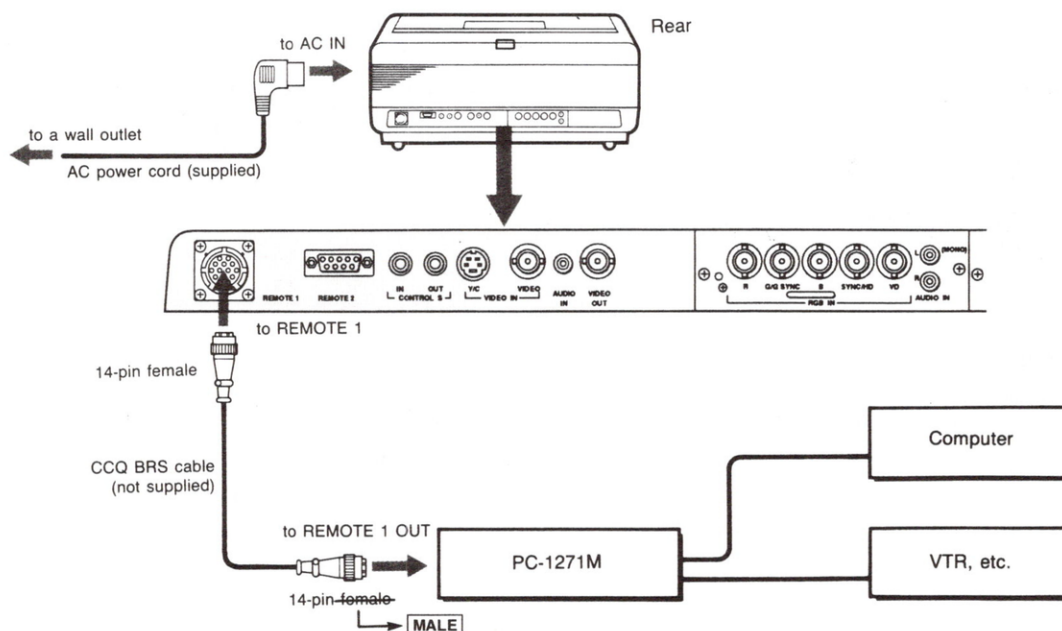


Figure 2

PAGE 86

Registration memory block	VPH-1251QM	VPH-1271QM
1	fH = 15 kHz — 19 kHz	fH = 15 kHz — 19 kHz
2	fH = 19 kHz — 24 kHz	fH = 19 kHz — 24 kHz
3	fH = 24 kHz — 30 kHz	fH = 24 kHz — 30 kHz
4	fH = 30 kHz — 37 kHz	fH = 30 kHz — 37 kHz
5	fH = 37 kHz — 45 kHz	fH = 37 kHz — 45 kHz
6	fH = 45 kHz — 50 kHz	fH = 45 kHz — 50 kHz
7	fH = 55 kHz — 58 kHz	fH = 55 kHz — 66 kHz
8	—	fH = 66 kHz — 85 kHz

58 kHz
55 kHz

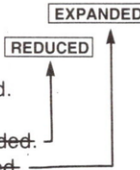
Figure 3

PAGE 88

SIZE adjustment

Adjust the size of the picture if it does not fit the screen.

- 1 Press the RGB SIZE key.**
The video SIZE can be adjusted with the RGB SIZE key.

- 2 Adjust with the arrow keys.**
- ▲: The vertical size is expanded.
 - ▼: The vertical size is reduced.
 - ◀: The horizontal size is ~~expanded~~.
 - ▶: The horizontal size is ~~reduced~~.
- 

- 3 After the adjustment is complete, press the MEMORY key.**
The adjusted data will be saved.

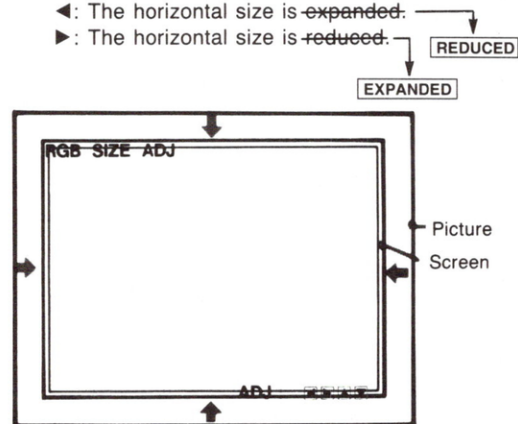
Figure 4

PAGE 90

- 1 Press the RGB SIZE key.**

- 2 Adjust with the arrow keys so that the picture fits the screen.**

- ▲: The vertical size is expanded.
- ▼: The vertical size is reduced.
- ◀: The horizontal size is ~~expanded~~.
- ▶: The horizontal size is ~~reduced~~.



- 3 When the adjustment is complete, press the MEMORY key.**
The adjusted data will be saved.

Figure 5

PAGE 94

How to Reset the Data

1 Select the adjustment mode to be reset.

2 Press the ◀ and ▶ keys simultaneously.
The following display appears.

```

SIZE ADJ
R __

REGISTRATION RED
DATA RESET MODE
Do you wish to return to
previously* saved data?

YES: ☐
NO: ☒
  
```

* Check that "previously" is displayed here.

(ex. To reset the ~~red size adjustment~~ data to the previously saved data)

ALL RED REGISTRATION

3 Press the ▲ key.

```

SIZE ADJ
R __

REGISTRATION RED
DATA RESET MODE
Reset complete!

ADJ: ☐ ☐ ☐ ☐
  
```

ALL RED REGISTRATION

The data will be reset to the previously saved data. (**Previous data reset**)

4 Press the ◀ and ▶ keys simultaneously again.
The following display appears.

```

SIZE ADJ
R __

REGISTRATION RED
DATA RESET MODE
Do you wish to return to
factory* preset data?

YES: ☐
NO: ☒
  
```

* Check that "factory" is displayed here.

(ex. To reset the ~~red size adjustment~~ data to the factory preset level)

ALL RED REGISTRATION

5 Press the ▲ key.
The data will be reset to the factory preset level.
(**Factory reset**)

ADD:

ALL RED REGISTRATION

Figure 6

PAGE 103

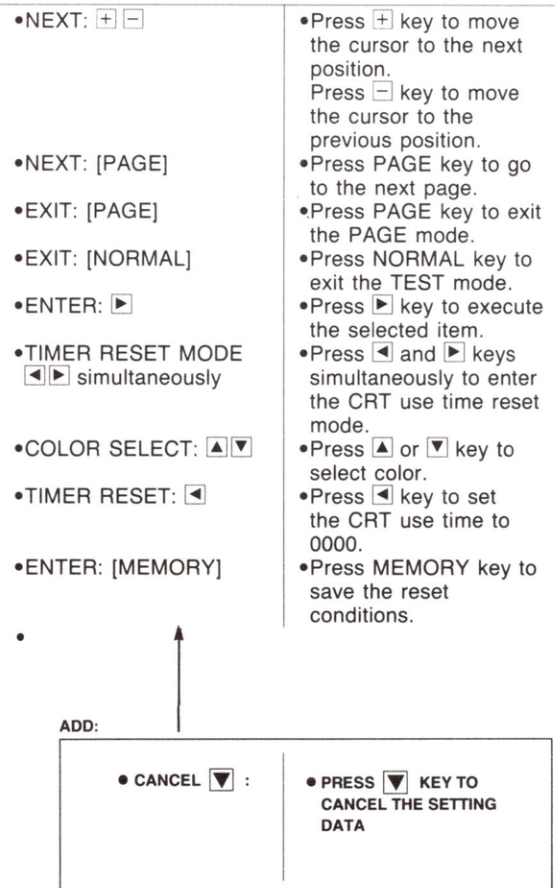


Figure 7

PAGE 105

Y: Error occurrence

ERROR CODE WILL BE DISPLAYED INSIDE THE HOOD. OPEN THE HOOD TO OBSERVE THE ERROR CODE.

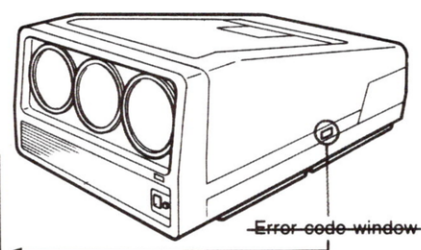
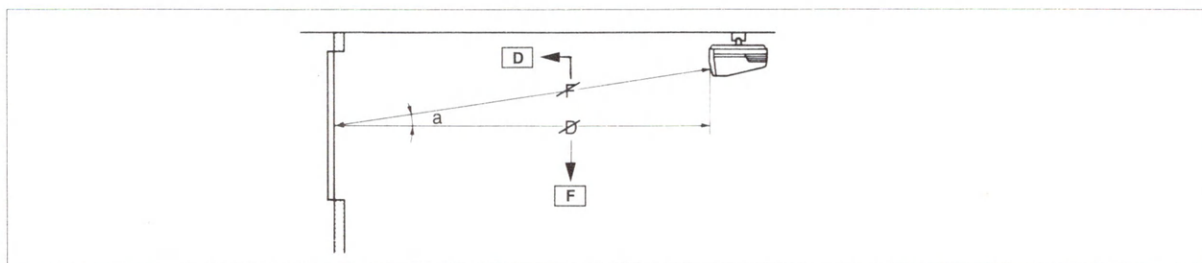


Figure 8

PAGE 109



Screen size (inches)	a = 1°		a = 2°		a = 3°		a = 4°		a = 5°		a = 6°	
	D (mm)	F (mm)	D (mm)	F (mm)	D (mm)	F (mm)	D (mm)	F (mm)	D (mm)	F (mm)	D (mm)	F (mm)
70	2038	2037	2038	2037	2039	2036	2039	2035	2040	2032	2041	2030
72	2091	2091	2092	2090	2168	2089	2093	2088	2093	2085	2094	2083
75	2170	2170	2171	2169	2171	2168	2172	2167	2173	2164	2174	2162
80	2302	2302	2303	2301	2303	2300	2304	2299	2313	2304	2316	2303
85	2437	2437	2435	2433	2444	2440	2454	2448	2464	2454	2467	2454
86	2461	2460	2461	2460	2462	2458	2463	2457	2470	2460	2476	2462
90	2566	2566	2567	2565	2568	2564	2568	2562	2569	2559	2570	2556
95	2698	2698	2698	2697	2700	2696	2700	2694	2701	2690	2703	2688
100	2830	2830	2831	2829	2832	2828	2832	2826	2833	2822	2835	2819
105	2963	2962	2964	2962	2965	2960	2965	2958	2966	2954	2968	2952
110	3096	3095	3097	3095	3098	3093	3098	3091	3099	3087	3101	3084
115	3224	3223	3225	3223	3225	3221	3226	3219	3227	3214	3229	3211
120	3352	3351	3352	3350	3353	3349	3354	3346	3355	3342	3357	3339
125	3484	3483	3484	3482	3458	3454	3486	3478	3487	3473	3489	3470
130	3616	3615	3616	3614	3617	3612	3619	3610	3629	3615	3630	3610
135	3748	3747	3749	3746	3751	3744	3753	3744	3773	3758	3773	3753
139	3853	3852	3854	3852	3855	3850	3868	3858	3887	3871	3888	3866
140	3880	3879	3881	3878	3882	3876	3888	3879	3901	3885	3905	3883
145	4012	4011	4013	4010	4014	4008	4015	4005	4022	4006	4027	4005
150	4144	4143	4145	4142	4146	4140	4147	4137	4149	4132	4151	4128
155	4275	4274	4276	4274	4277	4271	4279	4268	4280	4263	4283	4259
160	4406	4405	4407	4405	4409	4403	4410	4399	4412	4394	4414	4390
165	4538	4537	4539	4536	4540	4534	4541	4531	4543	4525	4546	4521
170	4669	4668	4670	4667	4672	4665	4673	4662	4675	4656	4677	4652
175	4800	4799	4802	4799	4803	4796	4804	4793	4806	4787	4809	4782
180	4932	4931	4933	4930	4934	4927	4936	4924	4937	4918	4940	4913
185	5063	5062	5064	5061	5066	5059	5067	5055	5069	5049	5072	5044
190	5194	5193	5196	5193	5197	5190	5199	5186	5200	5180	5203	5175
195	5326	5325	5327	5324	5329	5321	5330	5317	5332	5311	5335	5306
200	5457	5456	5458	5455	5460	5452	5462	5448	5463	5442	5467	5437
205	5590	5589	5592	5588	5593	5585	5595	5581	5597	5574	5600	5569
210	5723	5722	5725	5721	5726	5718	5728	5714	5730	5707	5733	5702
215	5856	5855	5858	5854	5860	5851	5861	5847	5863	5840	5867	5834
220	5990	5988	5991	5988	5993	5984	5995	5980	5997	5973	6000	5967
225	6123	6121	6124	6121	6126	6117	6128	6113	6130	6105	6133	6100
230	6256	6255	6257	6254	6259	6251	6261	6246	6263	6238	6267	6232
235	6389	6388	6391	6387	6392	6384	6394	6379	6397	6371	6400	6365
240	6522	6521	6524	6520	6526	6517	6528	6512	6530	6504	6534	6498
245	6655	6654	6657	6653	6659	6650	6661	6645	6663	6636	6667	6630
250	6788	6787	6790	6786	6792	6783	6794	6778	6796	6769	6800	6763
260	7055	7053	7057	7053	7058	7048	7061	7044	7063	7036	7067	7028
270	7321	7320	7323	7319	7325	7315	7327	7309	7330	7302	7334	7293
280	7587	7586	7589	7584	7591	7581	7594	7576	7596	7567	7601	7559
290	7853	7852	7856	7851	7858	7847	7860	7841	7863	7833	7867	7824
300									8130	8099	8134	8089
	8120	8119	8122	8117	8124	8113	8127	8107				

Figure 9

Videodisc

Date: **July 13, 1992**

Subject: **PART REGISTRATION—RUBBER PAD
FOR HARNESS W7**

Model: **LDP-1450/1450W**

Serial No: **810,001–817,700 (LDP-1450)**
800,001–800,400 (LDP-1450W)

DESCRIPTION

The W7 harness may become damaged during transport or repair of the unit, resulting in the following possible symptoms:

- No Operation
- No Video
- No Black Burst Signal

A rubber pad, part number **3-943-099-01**, is now available to protect the W7 harness wiring from damage. Install the new self-adhesive rubber pad on the CB-31 board as shown in Figure 1.

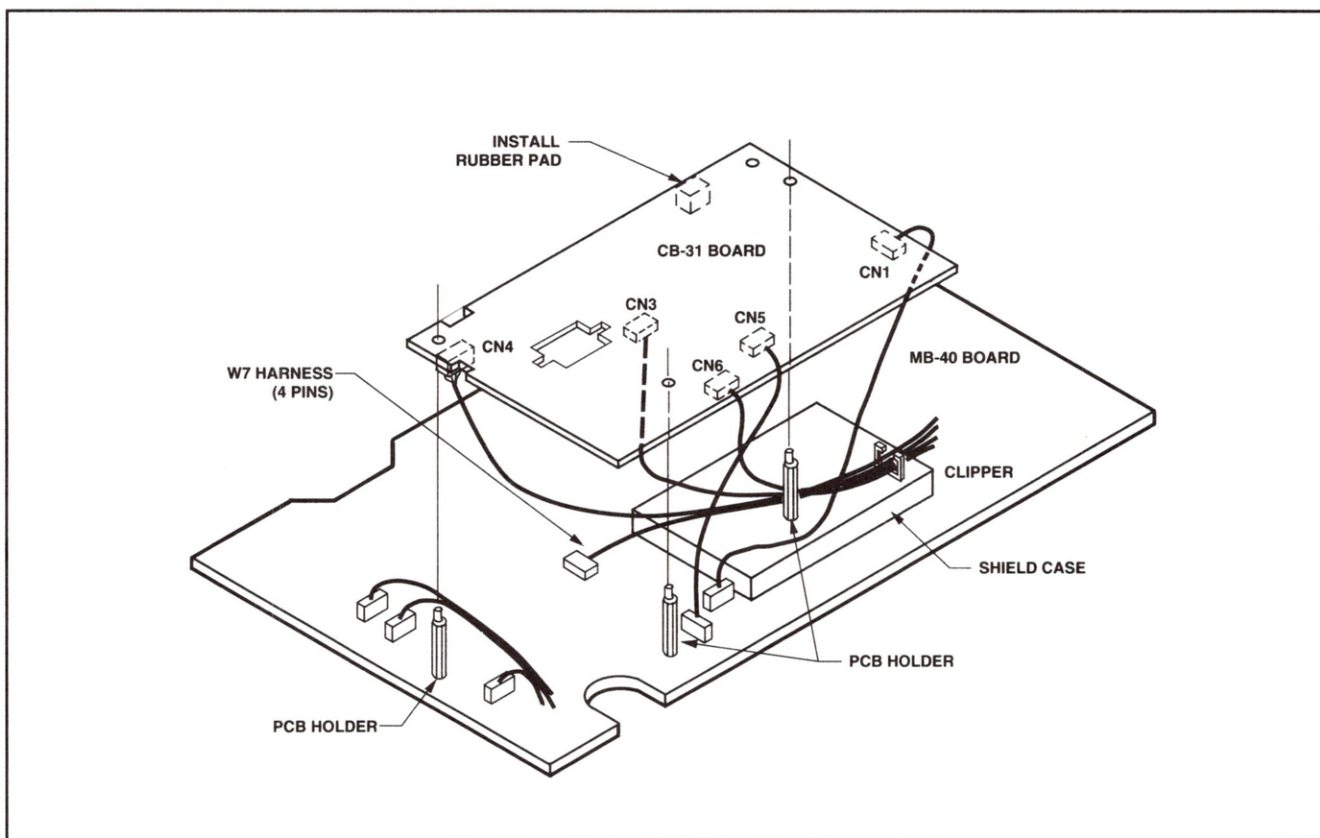


Figure 1

VTR

Date: **July 13, 1992**

Subject: **INHIBITING AUTO EJECT**

Model: **SVP-1210**

Serial No: **10,001-13,200**

DESCRIPTION

When the end of a cassette tape is reached while the unit is in PLAY, FF, or CUE mode, the tape is normally rewind and ejected from the unit automatically. In some cases, however, this feature is not desirable. To inhibit Auto Eject, ground IC301-34 on the CP-1 board, leading jumper from the land of pull-up resistor R3003 to ground, as shown in Figure 1, to avoid damaging IC301.

NOTE: Inhibiting Auto Eject also inhibits Auto Play when the cassette tape is loaded.

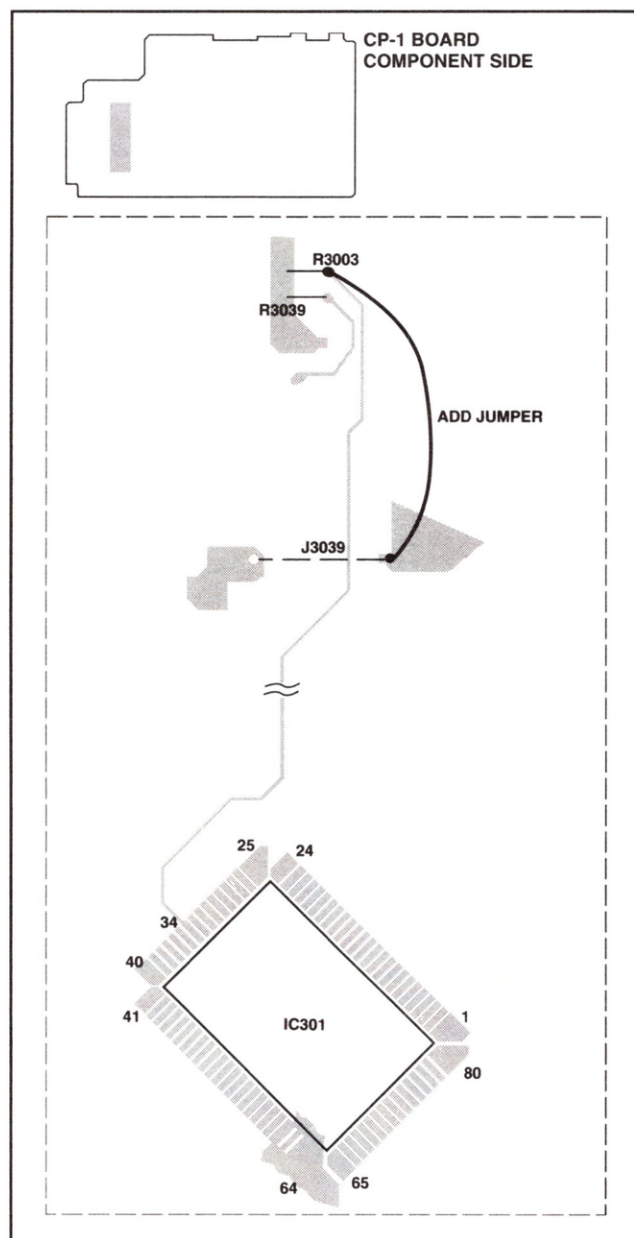


Figure 1

Display

Date: **July 27, 1992**

Subject: **PARTS REGISTRATION—POWER
BLOCK ASSEMBLIES**

Model: **PVM-2030/2530**

Serial No: **ALL**

DESCRIPTION

The following complete power supply assemblies are now registered as service parts:

PVM-2030 Power Block Assembly with Shield
PVM-2530 Power Block Assembly without Shield

A-1477-425-A
A-1245-388-A

Display

Date: **July 27, 1992**

Subject: **PART NUMBER CHANGE—HIGH
 VOLTAGE DISTRIBUTION CASES**

Model: **JTU-2B**

Serial No: **ALL**

DESCRIPTION

The part number for the high voltage distribution cases has been changed. The four cases used within one display unit are now available pre-assembled with the new part number. (See Figure 1.)

Former

High Voltage Distribution Case
 2-125-744-01



New

High Voltage Distribution Case Assembly
 A-6279-130-A

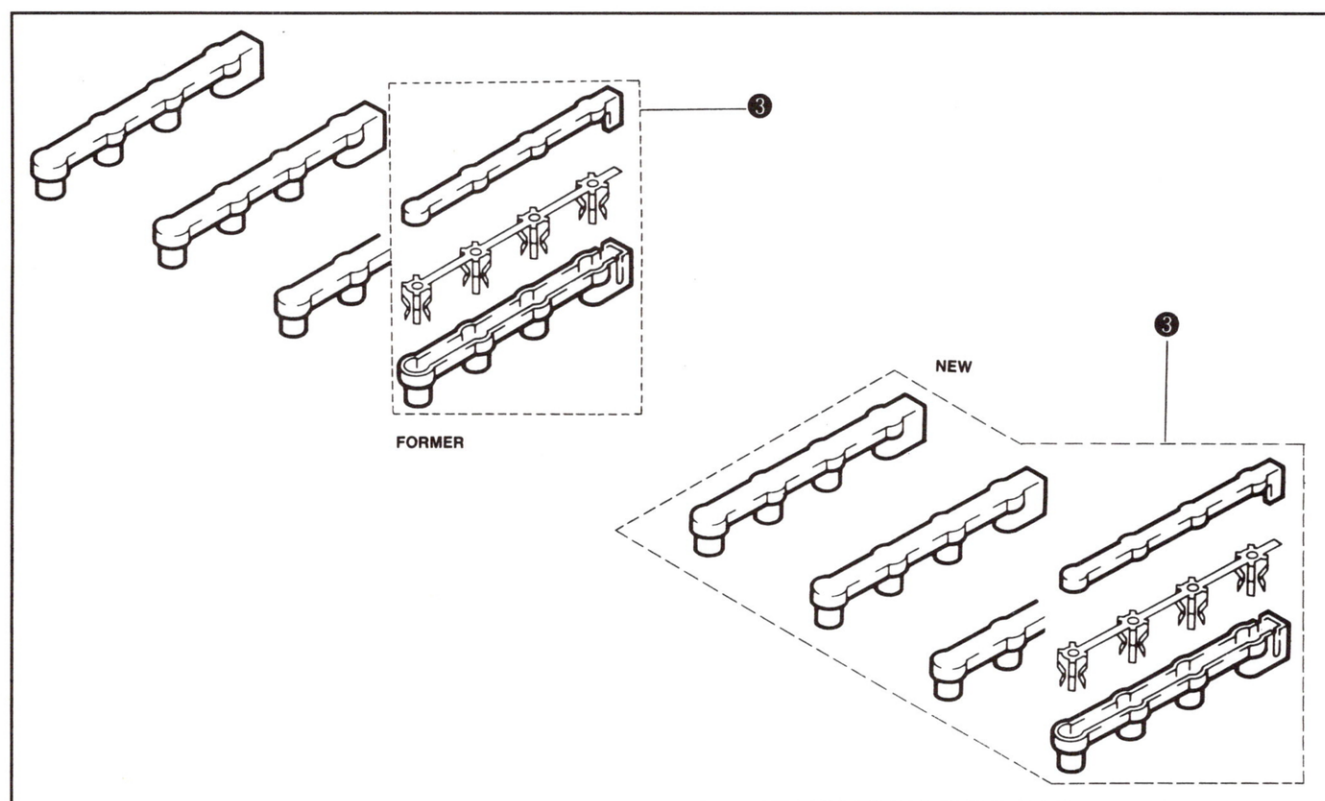


Figure 1

VTR

Date: **August 10, 1992**

Subject: **INCOMPLETE SHUTTLE MOVEMENT
DURING TAPE LOADING**

Model: **SVO-120/140/150/160**

Serial No: **800,001-805,000 (SVO-120)**
800,001-803,000 (SVO-140)
800,001 AND HIGHER (SVO-150)
800,001-801,000 (SVO-160)

DESCRIPTION

The tape shuttle in some units may not operate properly during tape loading. This may be indicated by the following:

- Loud noise when tape is loaded (when the shuttle stops suddenly).
- Tape will not eject—when the shuttle stops halfway, the unit will go into EMERGENCY mode with all functions set to STOP mode.
- Tape damage—at termination of tape loading, the tape may become caught in the flange located under guide No. 3.

To correct this, replace the former left (L) and right (R) shuttle assemblies with the new parts.

NOTE: New guide rollers are not supplied with the new parts. Remove the guide roller from each shuttle assembly, then reinstall together with the new parts.

PARTS REQUIRED

Part No.	Description	Qty.
X-3727-786-1	Shuttle Assy (L)	1
X-3727-787-1	Shuttle Assy (R)	1

VTR

Date: **August 10, 1992**

Subject: **PART REGISTRATION—LEVER SWITCH
FIXING FRAME ASSEMBLY**

Model: **BVE-600, EVO-9800/9850, VO-9800/9850**

Serial No: **ALL**

DESCRIPTION

The lever switch fixing frame assembly is now available as a service part. The new fixing frame allows the user to reduce the number of position settings of lever switches on the front panel. Table 1 gives assembly contents.

Table 1

Part No.	Description	Qty.
3-176-404-01	Lever Switch Fixing Frame (L)	1
3-176-405-01	Lever Switch Fixing Frame (S)	1

1. Set lever switch as desired.
2. Position fixing frame as shown in Figure 1. Set fixing frame into lever switch.

Table 2

Fixing Frame	Setting
L (long)	3 → 2* 2 → 1
S (short)	2 → 1

* To restrict a 3-position switch to 2 positions only, remove area A of fixing frame (L) as shown in Figure 1.

INSTALLATION

To install the lever switch fixing frames (L) and (S) onto the lever switches of individual units, proceed as follows (see Table 2).

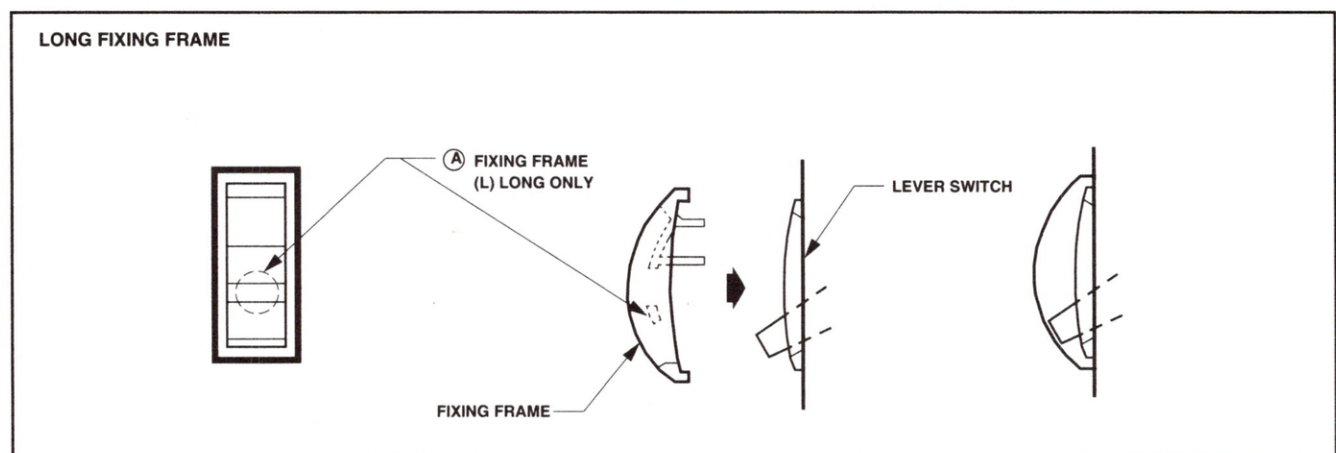


Figure 1

VTR

Date: **August 10, 1992**

Subject: **BLUE BACKGROUND PICTURE**

Model: **SVO-160**

Serial No: **ALL**

DESCRIPTION

A blue background may sometimes appear when playing back a low-level or noisy tape. To correct this, modify the MA-62 board as described below.

PARTS REQUIRED

Part No.	Description	Qty.
A-6729-693-A	DU-3 Board	1

MODIFICATION PROCEDURE

MA-62 Board (See Figures 1 and 2.)

1. Remove jumper JW405.
2. Solder black wire from DU-3 board to ground.
3. Solder blue wire from DU-3 board to pin 66 of IC501.
4. Solder yellow wire from DU-3 board to C SYNC IN side of JW405.
5. Solder red wire from DU-3 board to Q502 emitter.
6. Mount DU-3 board to IC-406 using double-sided tape.

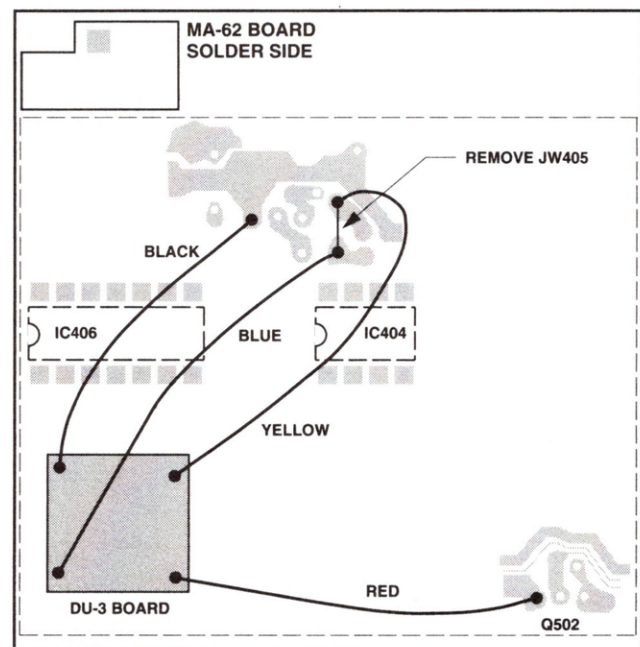


Figure 1

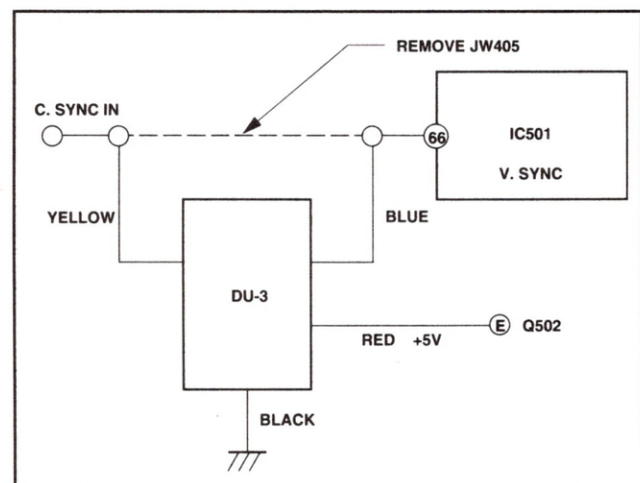


Figure 2

Display

Date: **August 10, 1992**

Subject: **ADDITIONAL REPLACEMENT CELLS**

Model: **JTU-8B**

Serial No: **ALL**

DESCRIPTION

New replacement cells are now available for screens with the new type Trinitite cells (Utah Jazz):

Cell Assembly (A)	A-6279-867-A
Cell Assembly (B)	A-6279-868-A

This single type replacement cell is available for all four different color temperatures. (Previous replacement cells had four different color temperature rankings.)

The new cells have three different color temperature adjustment filters in the package (color rank A does not require a filter). Select the necessary color temperature adjustment filter and apply the filter to the cell, as described in the package instructions.

VTR**Date: August 10, 1992****Subject: PARTS REGISTRATION—NEW
EXTENSION CABLES****Model: EVO-9700****Serial No: ALL****DESCRIPTION**

The following board-to-board extension cables are now registered as service parts:

PA-27 to PD-19 (20 pin)	J-6082-153-A
HK-4 to YC-71 (5 pin)	J-6082-154-A
HK-4 to YX-2 (6 pin)	J-6082-155-A
HK-4 to YX-2 (7 pin)	J-6082-156-A
MB-19 to MA-41 (9 pin)	J-6082-157-A
SE-10 to IG-5	J-6082-158-A
FB-171 to IG-4	J-6082-158-A
SE-10 to IG-5	J-6082-158-A
SE-10 to FB-170	J-6082-158-A
IG-4 to MC-46	J-6082-159-A
SE-10 to MC-46	J-6082-159-A

Videodisc

Date: **August 10, 1992**

Subject: **UNSTABLE PLAYBACK PICTURE**

Model: **LVA-7000/8000P**

Serial No: **ALL**

DESCRIPTION

Poor conductivity on the TA-70 board may result in an unstable playback picture. To determine if this condition exists, check for a connection between:

- IC49-13 (zone C-13) and IC57-11 (zone B-9)
- IC58-9 (zone B-9) and IC51-14 (zone C-6)

If either connection is open, solder a jumper wire between points A and B as shown in Figure 1.

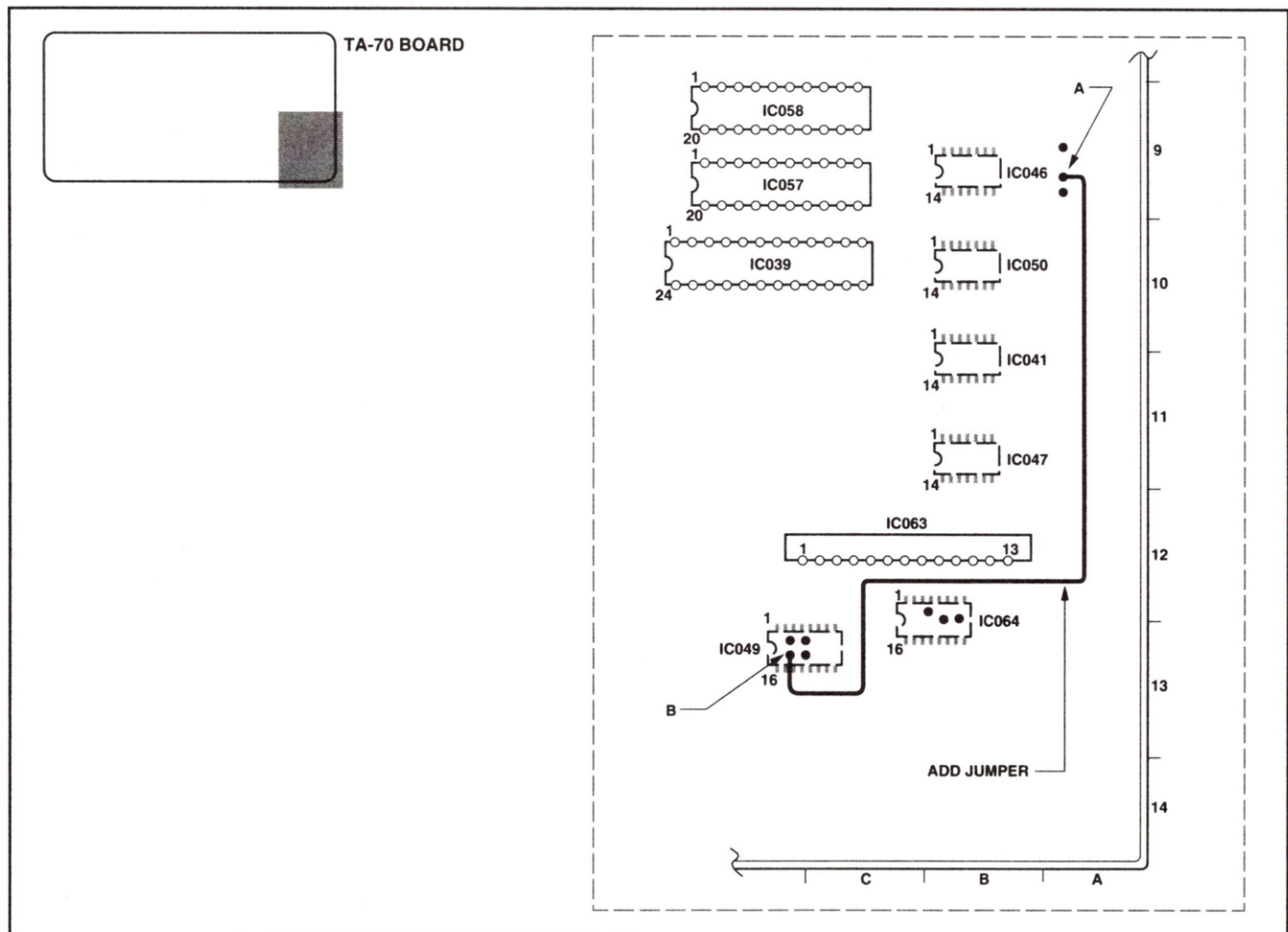


Figure 1

Display

Date: **August 24, 1992**

Subject: **SD BOX CIRCUIT MODIFICATION**

Model: **JTM-2A/B**

Serial No: **ALL**

DESCRIPTION

In order to improve motion picture quality, some SD box units may have undergone a circuit change, as described in the following modification procedure.

MODIFICATION PROCEDURE

SD Board

Solder Side (See Figures 1 and 2.)

1. Cut trace leading from IC8-11 to IC4-8.
2. Solder jumpers between:
 - (A) IC31-3 IC4-10
 - (B) IC31-4/5 . . . IC4-9
 - (C) IC31-6 IC24-1
 - (D) IC24-2 IC8-11

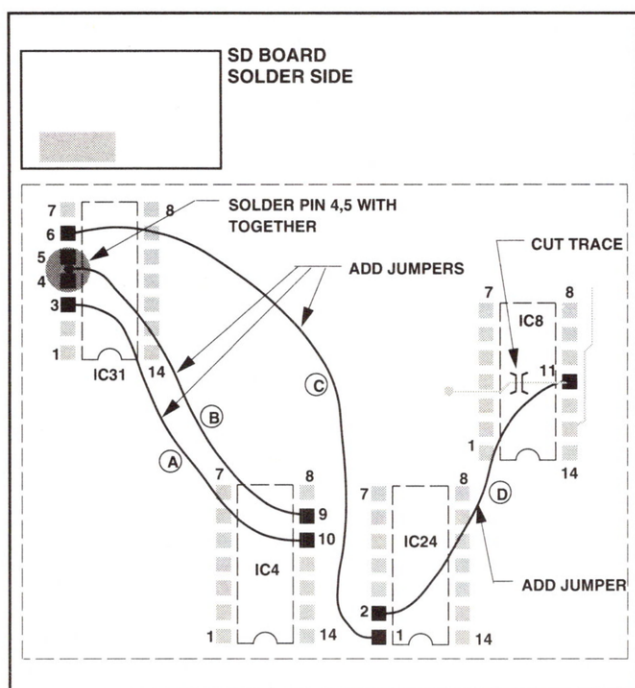


Figure 1

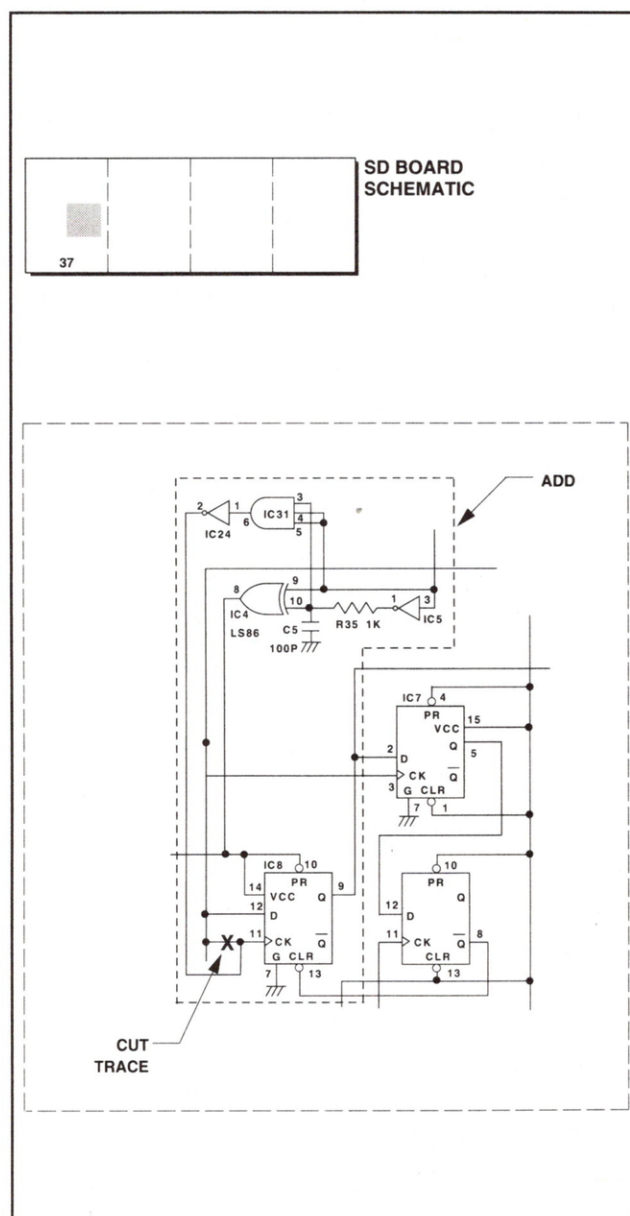


Figure 2

Camera

Date: **August 24, 1992**

Subject: **CHARACTER, H-SYNC DISTURBANCE**

Model: **EVW-300**

Serial No: **10,001-10,480**

DESCRIPTION

When the zebra pattern covers the entire picture with ZEBRA turned ON (when shooting an object of at least 70% intensity level), characters in the viewfinder may experience H-sync disturbance and may be crushed. To correct this condition, perform the following modification procedure.

PARTS REQUIRED

Part No.	Description	Qty.
1-216-813-11	Res, Metal, Chip, 220Ω, 1/16W, 5% (R33)	1
1-216-830-11	Res, Metal, Chip, 5600Ω, 1/16W, 5% (R34)	1
1-216-833-11	Res, Metal, Chip, 10kΩ, 1/16W, 5% (R135)	1

MODIFICATION PROCEDURE

ES-4 Board

Solder Side (See Figure 1.)

1. Replace R33 (zone I-4) with a new 220Ω resistor.
2. Replace R34 (zone I-4) with a new 5600Ω resistor.
3. Replace R135 (zone H-1) with a new 10kΩ resistor.

CONFIRMATION

Turn on ZEBRA in color bars mode, and verify that the zebra pattern appears in the yellow portion of the color bars.

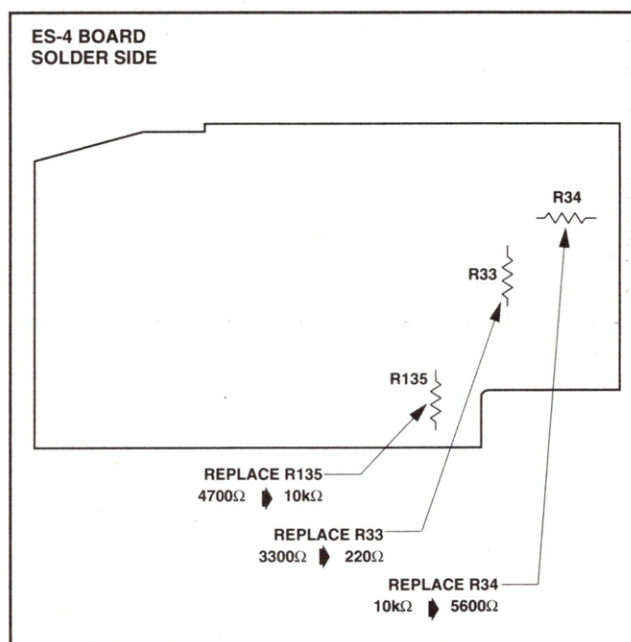


Figure 1

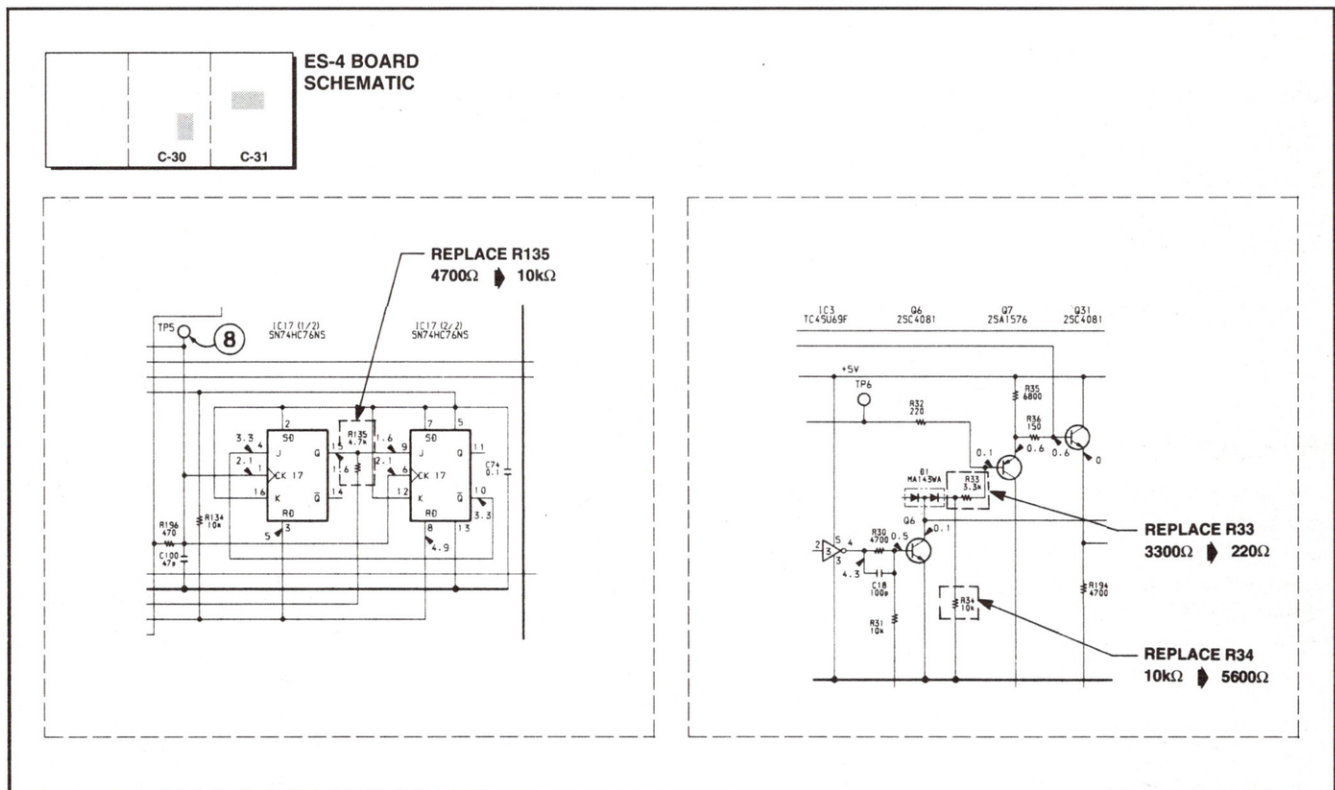


Figure 2

Display

Date: **August 24, 1992**

Subject: **BRIGHTNESS ADJUSTMENT
PROCEDURE**

Model: **JTU-2A/2B**

Serial No: **ALL**

DESCRIPTION

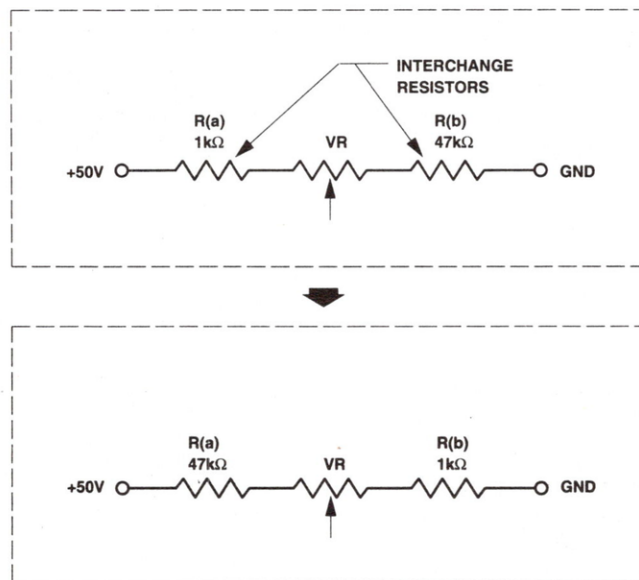
In systems that have undergone prolonged use, if brightness cannot be decreased sufficiently to match that of the other cells after replacement of the D rank cell, interchange the two resistors associated with each variable resistor as shown in Figure 1. Tables 1 and 2 give complete lists of variable resistors and associated resistors for both models.

Table 1. DL1, DL2, DR1, DR2 Boards (JTU-2A)

Variable Resistor	Exchange Resistors
VR1	R33 ↔ R29
VR2	R34 ↔ R30
VR3	R35 ↔ R31
VR4	R36 ↔ R32

Table 2. VR Board (JTU-2B)

Variable Resistor	Exchange Resistors
VR1	R1 ↔ R17
VR2	R2 ↔ R18
VR3	R3 ↔ R19
VR4	R4 ↔ R20
VR5	R5 ↔ R21
VR6	R6 ↔ R22
VR7	R7 ↔ R23
VR8	R8 ↔ R24
VR9	R9 ↔ R25
VR10	R10 ↔ R26
VR11	R11 ↔ R27
VR12	R12 ↔ R28
VR13	R13 ↔ R29
VR14	R14 ↔ R30
VR15	R15 ↔ R31
VR16	R16 ↔ R32

**Figure 1**

Display

Date: **August 24, 1992**

Model: **GVM-2000**

Serial No: **ALL**

Subject: **PARTS REGISTRATION—MAIN
CHASSIS, A-BOARD BRACKET, AND
POWER SWITCH HOLDER**

DESCRIPTION

Add the following part numbers to the exploded view and parts list in the GVM-2000 Service Manual, as shown in Figure 1.

Description	SP	Part Number
Main Chassis	S	4-393-920-03
A-Board Bracket	S	4-393-914-02
Power Switch Holder	S	4-393-909-01

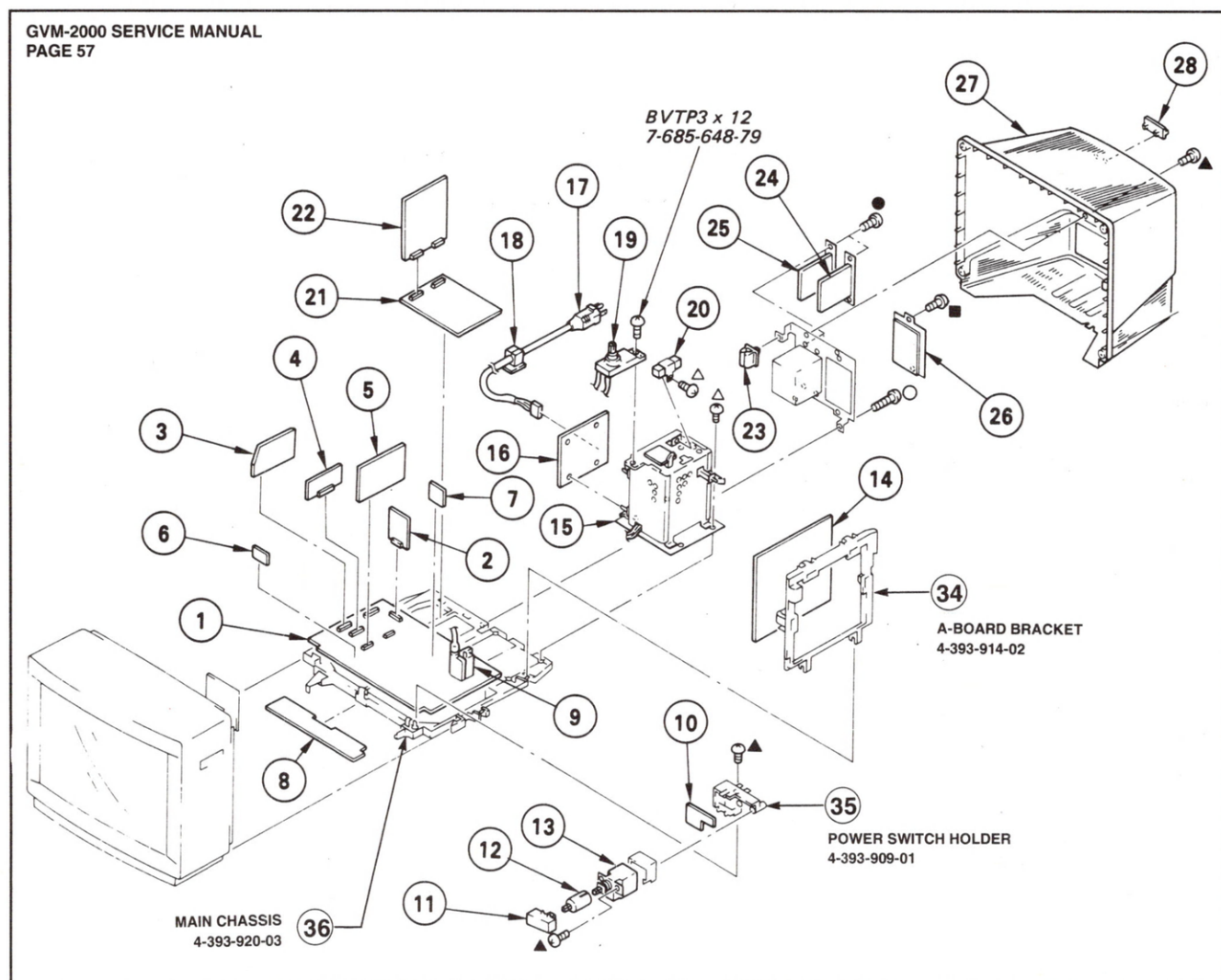


Figure 1

Videodisc

Date: **August 24, 1992**

Subject: **IMPROVED VP-20 BOARD**

Model: **LDP-1550**

Serial No: **103,771 AND HIGHER**

DESCRIPTION

A new VP-20 board is now available which features improved video frequency characteristics.

Former

VP-20 Board
A-6421-193-A

**New**

VP-20 Board
A-6421-495-A

If board replacement becomes necessary

- For units with serial numbers 103,771 and higher, use only the new board.
- For units with serial numbers 103,770 and lower, the former and new boards are interchangeable.

Camera

Date: **August 24, 1992**

Subject: **AUTO IRIS HUNTING**

Model: **EVW-300**

Serial No: **10,001-10,380**

DESCRIPTION

When shooting a bright picture, auto iris hunting sometimes occurs in the range of F16 to Close. To correct this condition, replace R93 on the AT-70 board (solder side, zone E-2) with a new 22kΩ resistor as shown in Figures 1 and 2.

NOTE: This modification must be performed if a lens other than VCL-713BX is used.

The following units have already been factory modified.

10,052	10,271
10,073	10,272
10,077	10,278
10,081	10,282
10,084	10,284
10,090	10,297
10,099	10,302-10,310
10,106	10,312-10,315
10,115	10,317-10,322
10,119	10,324
10,126	10,326-10,352
10,127	10,354-10,358
10,138	10,360-10,362
10,148	10,364
10,257	10,365
10,268	10,368-10,372
10,269	10,375

PARTS REQUIRED

Part No.	Description	Qty.
1-218-724-11	Res, Metal, Chip, 22kΩ, 1/16W (R93)	1

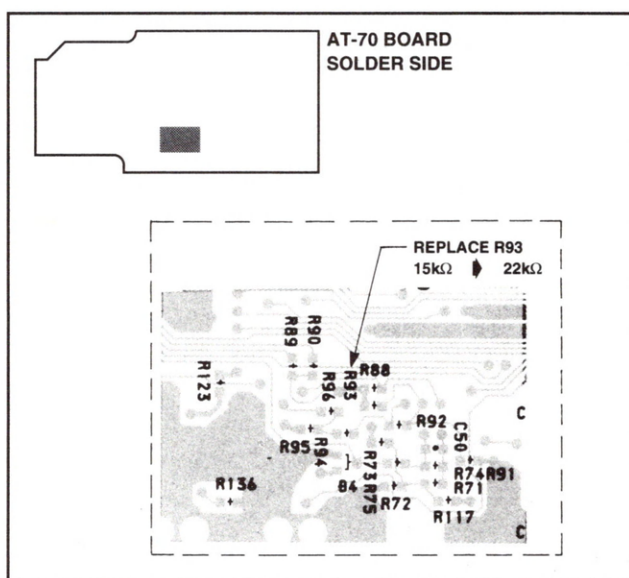
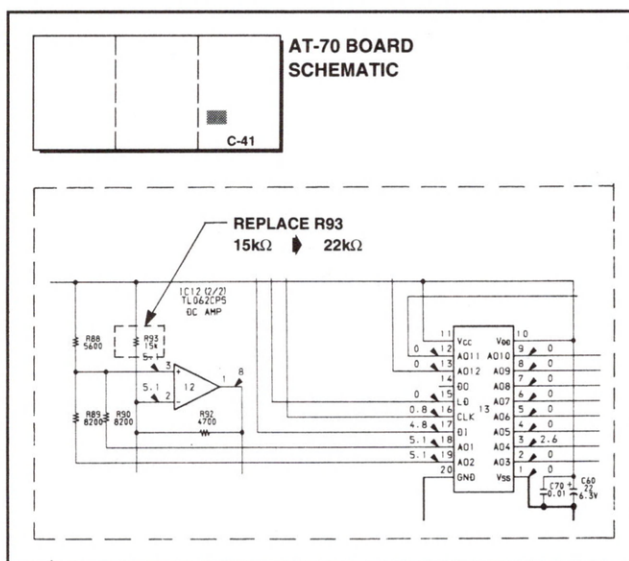


Figure 1



Display

Date: **August 24, 1992**

Subject: **PART REGISTRATION—POWER SUPPLY ASSEMBLY**

Model: **PVM-2030**

Serial No: **ALL**

DESCRIPTION

The GA and GB boards and the shield case are now registered as Power Supply Assembly, part number A-1477-425-A. Update the PVM-2030 Service Manual as shown in Figure 1.

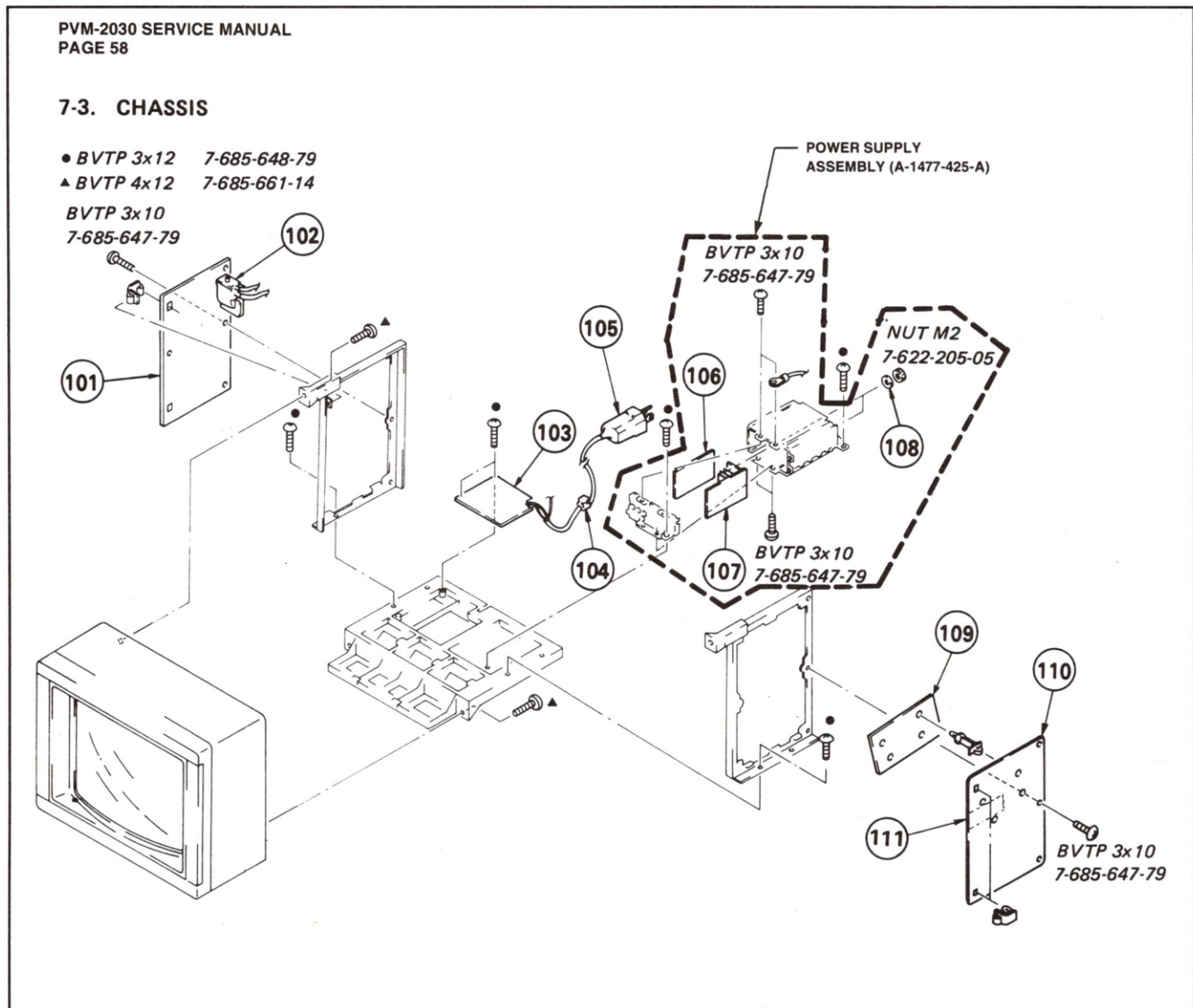


Figure 1

Display

Date: **August 24, 1992**

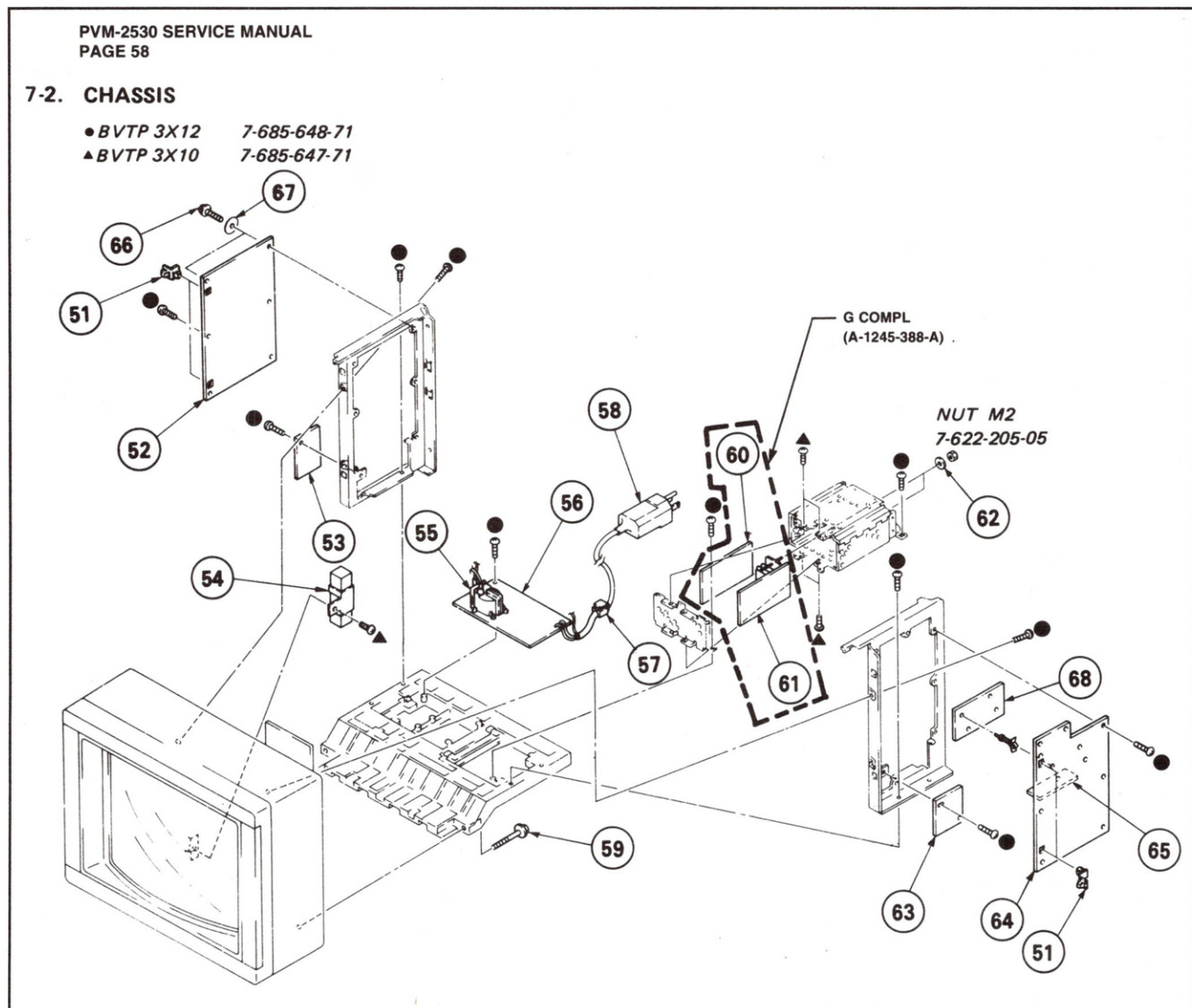
Subject: **PART REGISTRATION—G COMPL**

Model: **PVM-2530**

Serial No: **ALL**

DESCRIPTION

The GA and GB boards are now registered as G COMPL assembly, part number A-1245-388-A. Update the PVM-2530 Service Manual as shown in Figure 1.



Display

Date: **August 24, 1992**

Subject: **PART REGISTRATION—MEMORY
BUTTON**

Model: **PVM-1344Q/1444Q/1944Q/2044Q**

Serial No: **2,001,451 AND HIGHER (PVM-1344Q)
2,000,451 AND HIGHER (PVM-1444Q)
2,000,001 AND HIGHER (PVM-1944Q)
2,000,001 AND HIGHER (PVM-2044Q)**

DESCRIPTION

A new front control unit that includes a Memory button is now available. The part number for the new unit is **1-466-198-11**.



Display

Date: **September 7, 1992**

Model: **VPH-1251Q/1271Q**

Serial No: **5,000,001 AND HIGHER**

Subject: **ELIMINATION OF "OFF" INDICATION
WHEN SETTING "STATUS OFF"**

DESCRIPTION

In some units, an "OFF" indication may appear in the status display in the lower lefthand corner of the screen every time a key is pressed, even when STATUS OFF has been set. To eliminate this "OFF" indication, perform the following special mode setting procedure.

To Set Special Mode

1. Press [PAGE] to display page 1 on screen. Note current status display.
2. Press [STATUS OFF] continuously (about 5 seconds) until asterisk appears in status display, e.g., "STATUS:OFF*", indicating that "OFF" indication will be eliminated when STATUS OFF is set.

To Cancel Special Mode

1. Press [PAGE] to display page 1 on screen. Note current status display.
2. Press [STATUS OFF] continuously (about 5 seconds) until asterisk disappears in status display, e.g., "STATUS:OFF", indicating that "OFF" indication will appear when STATUS OFF is set.

NOTES:

- Pressing [STATUS ON] while in "STATUS:OFF." mode sets "STATUS:ON.", causing the "OFF" indication to appear on screen in all modes. However, pushing [STATUS OFF] a second time sets "STATUS:OFF*", and "OFF" no longer appears on screen in any mode.
- Once the "OFF" indication is eliminated, no message other than that for initial warm-up mode and page mode will be indicated.



Display

Date: **October 5, 1992**

Subject: **ELIMINATION OF "OFF" INDICATION
WHEN SETTING "STATUS OFF"**

Model: **VPH-1251Q/1271Q**

Serial No: **5,000,001 AND HIGHER**

DESCRIPTION

In some units, an "OFF" indication may appear in the status display in the lower right-hand corner of the screen every time a key is pressed, even when STATUS OFF has been set. To eliminate this "OFF" indication, perform the following special mode setting procedure.

**To Set Special Mode**

1. Press [PAGE] to display page 1 on screen. Note current status display.
2. Press [STATUS OFF] continuously (about 5 seconds) until asterisk appears in status display, e.g., "STATUS:OFF*", indicating that "OFF" indication will be eliminated when STATUS OFF is set.

To Cancel Special Mode

1. Press [PAGE] to display page 1 on screen. Note current status display.
2. Press [STATUS OFF] continuously (about 5 seconds) until asterisk disappears in status display, e.g., "STATUS:OFF", indicating that "OFF" indication will appear when STATUS OFF is set.

NOTES:

- Pressing [STATUS ON] while in "STATUS:OFF." mode sets "STATUS:ON.", causing the "OFF" indication to appear on screen in all modes. However, pushing [STATUS OFF] a second time sets "STATUS:OFF.", and "OFF" no longer appears on screen in any mode.
- Once the "OFF" indication is eliminated, no message other than that for initial warm-up mode and page mode will be indicated.

Display

Date: **September 7, 1992**

Subject: **PART REGISTRATION—MAIN CHASSIS (S)**

Model: **PVM-1340/1341/1342Q/1344Q**
PVM-1942Q/1944Q

Serial No: **ALL**

DESCRIPTION

The main supply chassis has been registered as part number **4-391-841-02**. Add it to your service manual as shown in Figure 1.

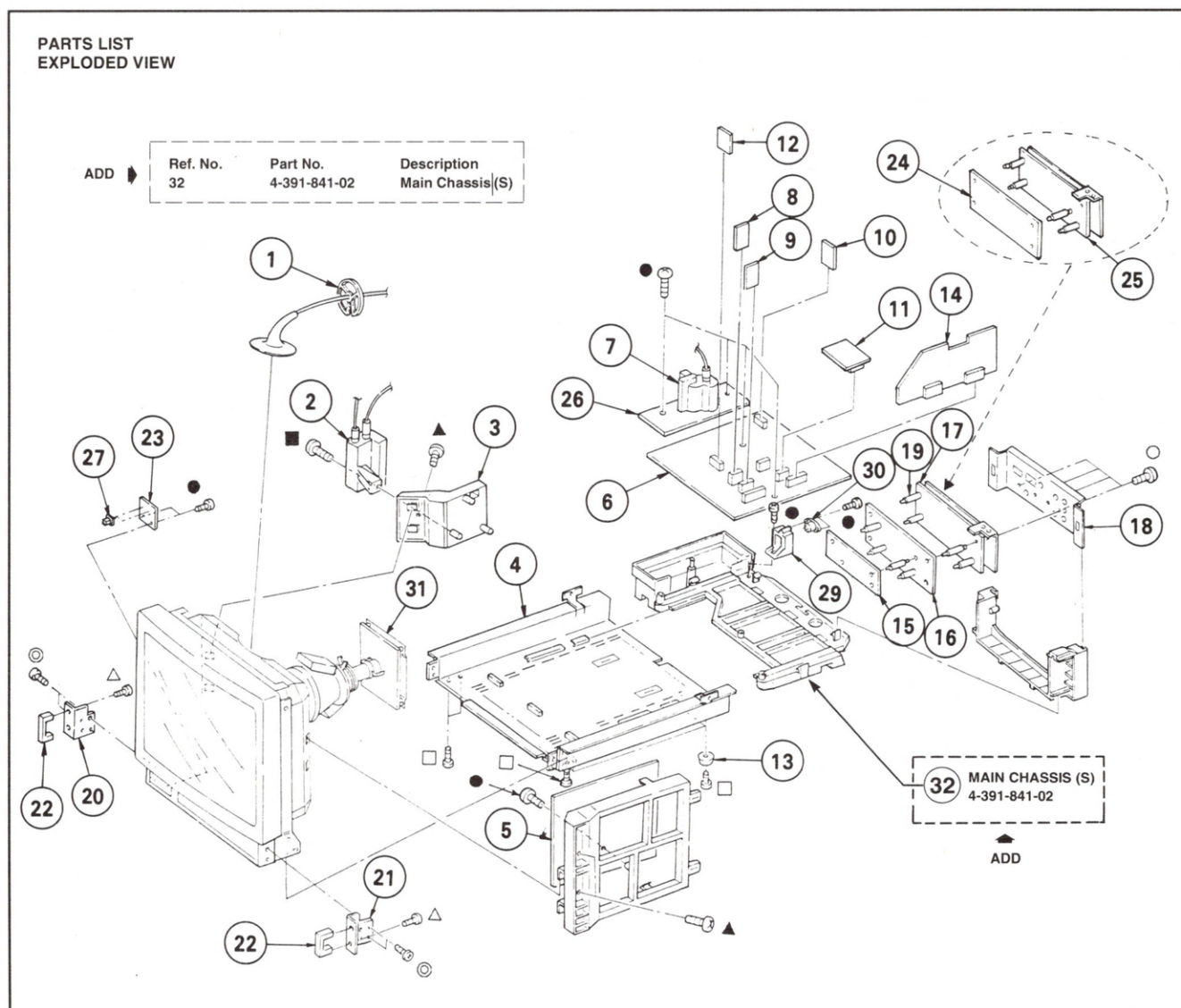


Figure 1

Display

Date: **December 14, 1992**

Subject: **PART REGISTRATION—MAIN CHASSIS (S)**

Model: **PVM-1340/1341/1342Q/1343MD/1344Q**
PVM-1942Q/1943MD/1944Q

Serial No: **ALL**

DESCRIPTION

The main supply chassis has been registered as part number **4-391-841-02**. Also available are the P-board (**4-393-342-02**) and F-board (**4-391-838-04**) brackets. Add these numbers to your service manual as shown in Figure 1.

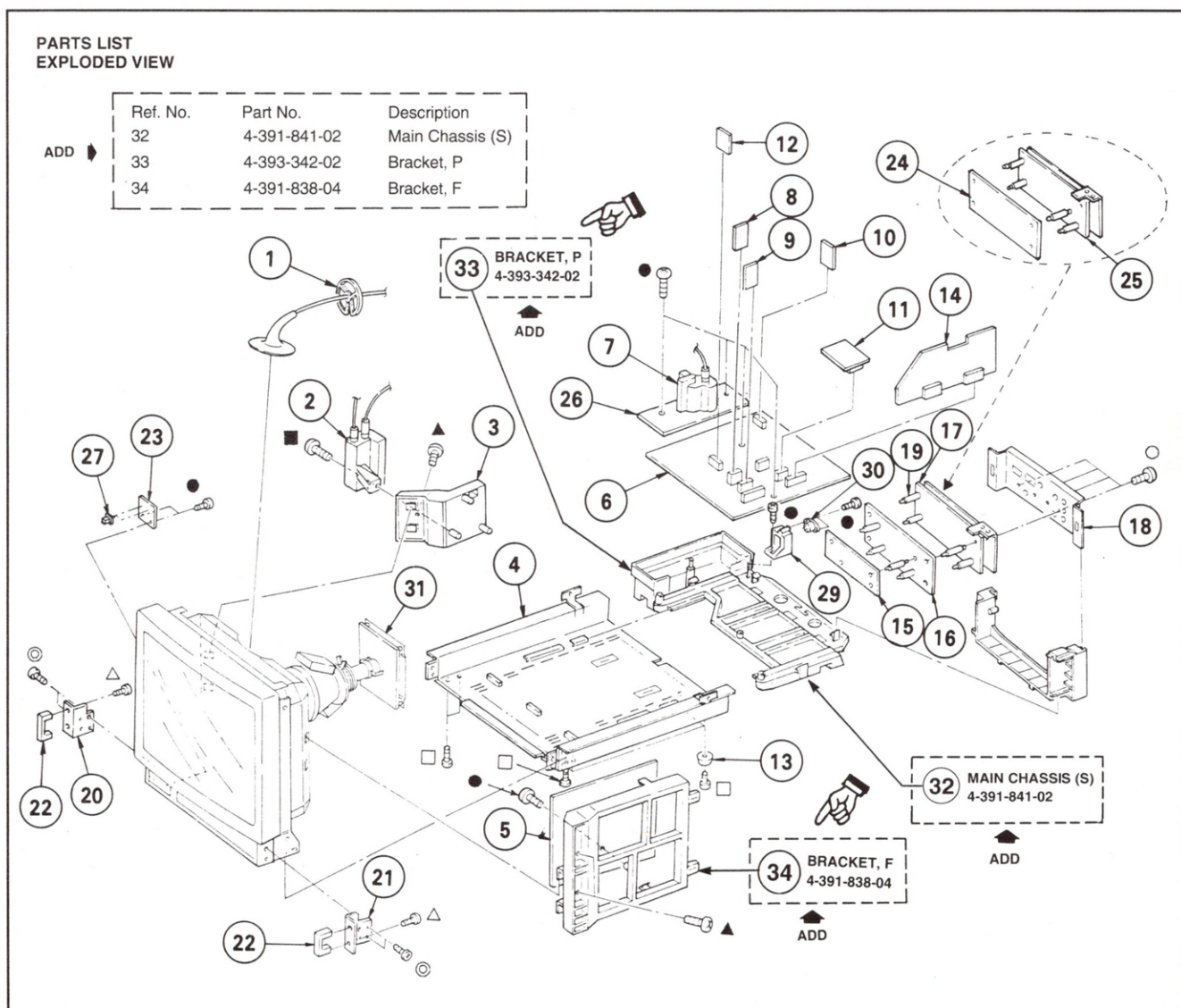


Figure 1

Display

Date: **September 7, 1992**

Subject: **CORRECTING AUDIO JACK
DEFORMATION**

Model: **PVM-8040/8041Q/8044Q**

Serial No: **2,001,801 AND HIGHER (PVM-8040)**
2,001,501 AND HIGHER (PVM-8041Q)
2,000,901 AND HIGHER (PVM-8044Q)

DESCRIPTION

The insulating material for the audio jack on the Input-Output Terminal board may have become slightly deformed by the heat generated during production. In extreme cases, it may become difficult or impossible to insert the audio pin into the audio jack. To correct this problem, new Input-Output Terminal boards for line A and line B connectors are now available. (See Figures 1 and 2.) The new part numbers are as follows.

- PVM-8040
Input-Output Terminal Board
1-537-411-11
- PVM-8041Q/8044Q
Input-Output Terminal Board (Line A)
1-537-410-11

Input-Output Terminal Board (Line B)
1-537-408-11

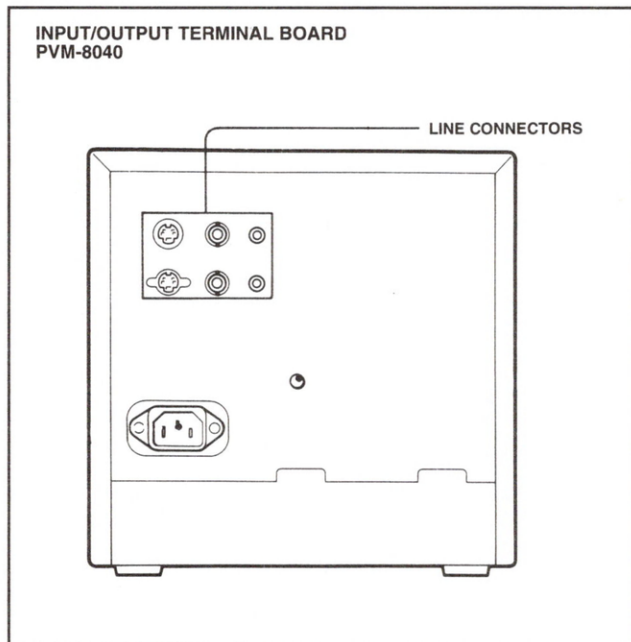


Figure 1

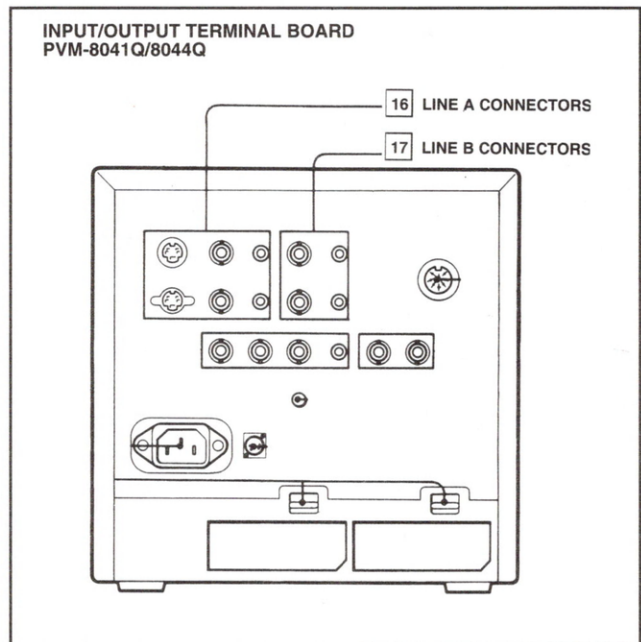


Figure 2

Display

Date: **September 7, 1992**

Subject: **IMPROVEMENT OF PICTURE
DISTORTION**

Model: **PVM-1942Q/1944Q**

Serial No: **100,001 AND HIGHER**

DESCRIPTION

In order to minimize picture distortion such as that shown in Figure 1, perform the following modification procedure.

PARTS REQUIRED

Part No.	Description	Qty.
1-215-455-00	Res, Metal, 27k Ω , 1/6W, 1% (R800)	1
1-215-460-00	Res, Metal, 43k Ω , 1/6W, 1% (R586)	1

MODIFICATION PROCEDURE

A Board (See Figure 2.)

1. Replace R800 with a new 27k Ω metal resistor.
2. Replace R586 with a new 43k Ω metal resistor.
3. Adjust horizontal deflection.

PICTURE DISTORTION

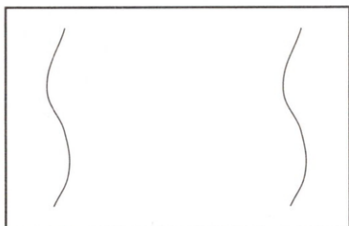


Figure 1

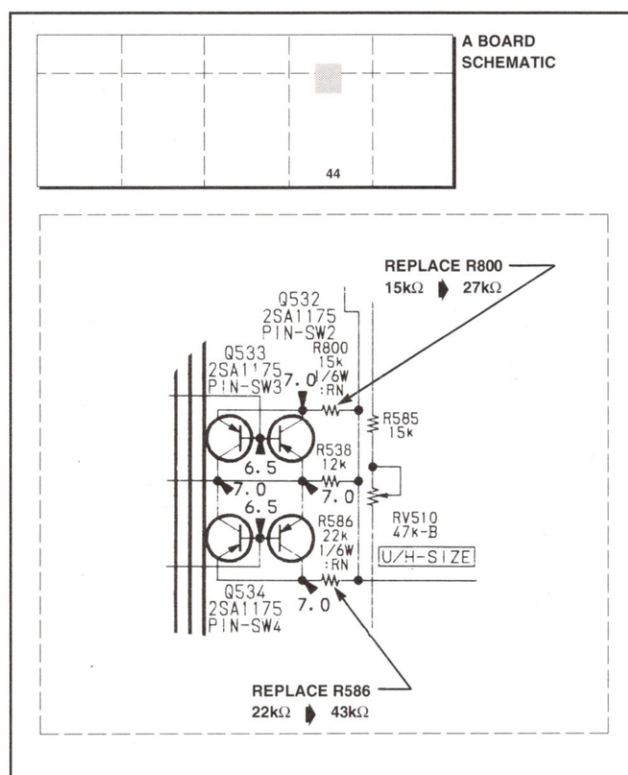


Figure 2

Display

Date: **September 7, 1992**

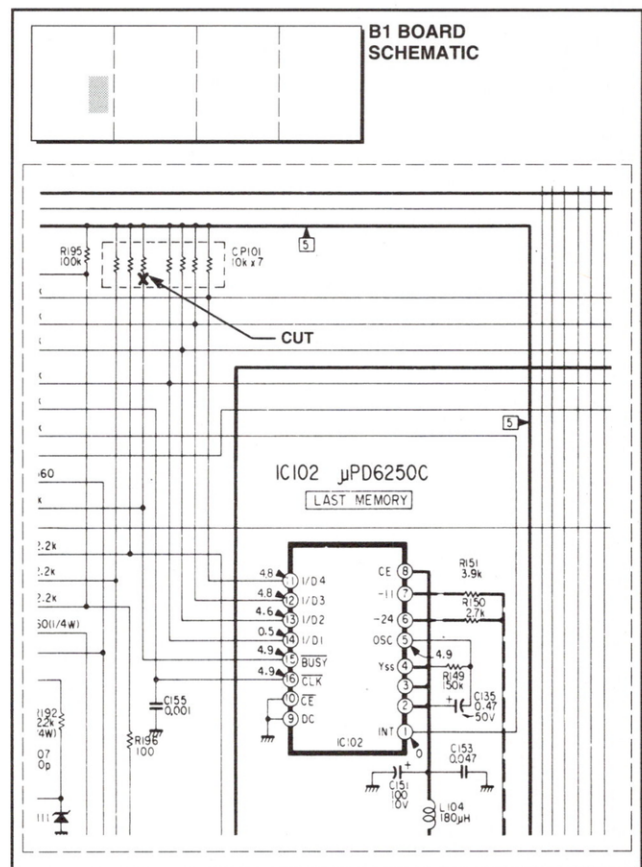
Subject: **RESET MALFUNCTION**

Model: **PVM-2030/2530**

Serial No: **2,023,751–2,035,050 (PVM-2030)**
2,031,751–2,039,700 (PVM-2530)

DESCRIPTION

Pressing the RESET key on the front panel will restore standard (default) control settings. However, once this key has been pressed, and the monitor is turned off, then on again, the unit may revert to previous control settings. To eliminate this, cut the lead of resistor CP101-6 connected to IC102-15 (BUSY terminal) on the B1 board as shown in Figure 1.



Display

Date: **September 7, 1992**

Subject: **MANUAL CORRECTION—PLT BOARD
PARTS LIST**

Model: **JTC-10A**

Serial No: **ALL**

DESCRIPTION

Correct the JTC-10A Service Manual/Parts List as shown in Figure 1.

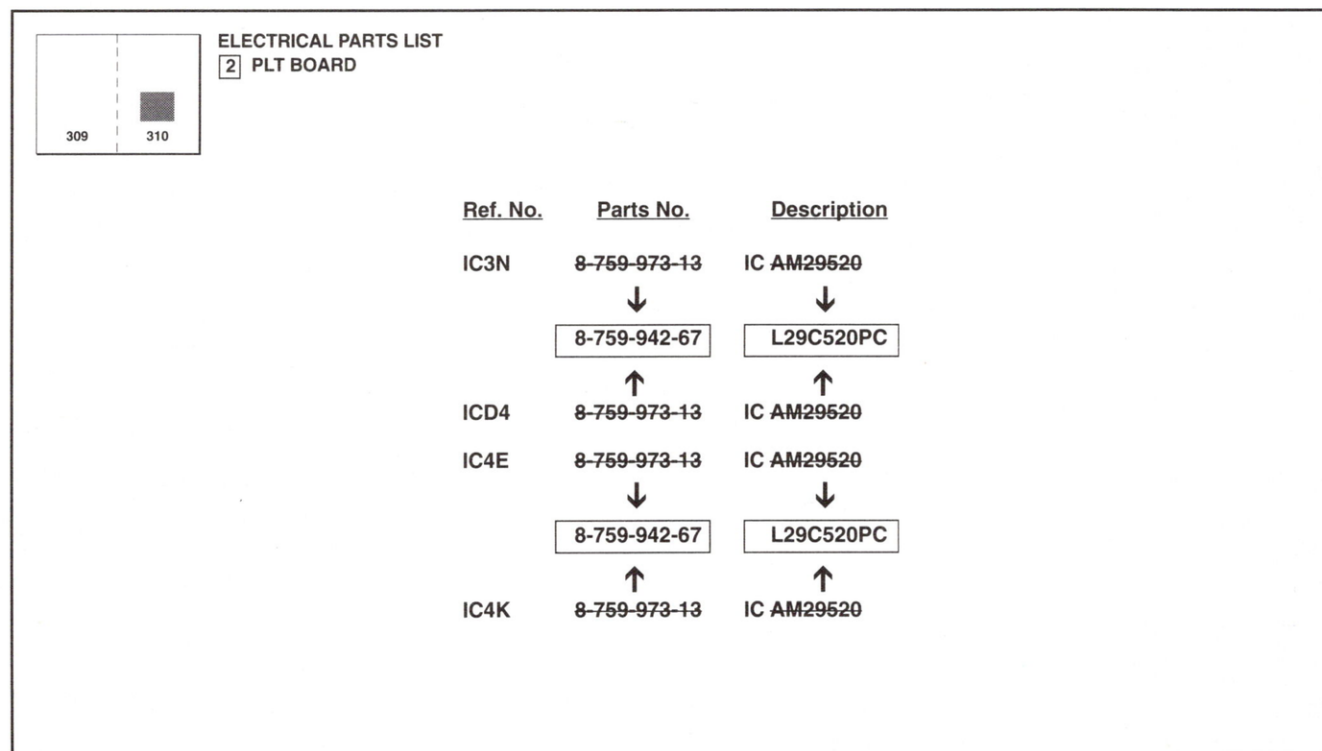


Figure 1

Peripheral

Date: **September 7, 1992**

Subject: **MANUAL CORRECTIONS—
 ADJUSTMENT PROCEDURES**

Model: **MMV-500A**

Serial No: **ALL**

DESCRIPTION

Correct the MMV-500A Service Manual, Volume 2, 2nd Edition, as shown in Figures 1 through 8.

PAGE 3-2

1. Checking the tape sensor operation

Check the tape sensor (D5) is lit when a tape is ~~not~~ loaded.

DELETE



Figure 1

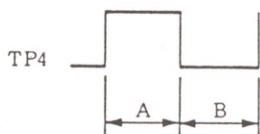
PAGE 3-4

4. Free speed adjustment

Measuring instrument : Oscilloscope

Mode : STOP

- (1) Short-circuit the edge connector pin 29 to GND.
- (2) Adjustment of P-PWM duty



TP4 : A = B = 575 μ Sec Approx

RV3

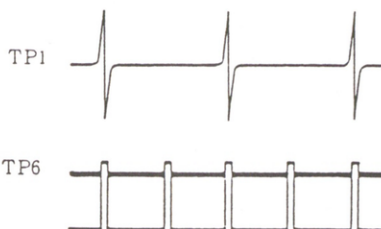
ADD

(3) Remove the jumper wire connected between the edge connector pin 29 and GND.

ADD

(4) Mode: Play (Alignment tape VP-625)

- (2) Check the TP1 (PG B) and TP6 (REC SYNC) are locked.



TP1 and TP6 are in sync.

5. RF switching pulse adjustment

Measuring instrument : Oscilloscope

Mode : PLAY (Play back the alignment tape.)

Alignment tape : ~~VP-602~~ Color bars

VP-625

Figure 2

PAGE 3-5

8. AFM REC SWP1 adjustment

Measuring instrument : Oscilloscope

Mode : REC $\rightarrow$ PLAY

Switch setting : Hi-Fi audio switch of the control panel : On

Input signal : 50% FLAT FIELD or ~~REF-VIDEO of~~ ~~connector panel~~ ~~DELETE~~

Non-signal for the audio input.

Figure 3

PAGE 3-6

9. AFM REC SWP2 adjustment

Measuring instrument : Oscilloscope

Mode : REC → PLAY

Switch setting : Hi-Fi audio switch of the control
panel : OnInput signal : 50 % flat field ~~or REF video~~  DELETE
Non-signal for the audio input.**Figure 4**IC18 pin 7 :  RV16  DELETEIC118 pin 7 :  RV116 **(2) ~~Checking the reel rotation stop indication~~**Check that when shifting to STOP mode from
FF or REW mode, the speed decelerates and D12
(FF) or D112 (REW) is lit.**Figure 5**ADD
channel B AFM RF level of the playback machine after
duplication is low:**(1) When the AFM RF level is low**The video Y-signal recording current of the
corresponding channel should be decreased.**a) In a case where the ~~AFM RF level of channel~~
~~B is low~~:**Decrease the Y-signal recording current of
channel B by 5% at TP17/RFE with RV403/
RFE.**b) In a case where the AFM RF level of channel
A is low :**Decrease the Y-signal recording current of
channel A by 5% at TP18/RFE with RV406/
RFE.**Figure 6**

PAGE 7-5

- 2-2) While observing the RF output waveform, slowly turn the K2 guide adjusting nut to lift or lower the guide, and make the RF output waveform input side as illustrated (Fig. 7-17) (by allowing 5 to 10 seconds to pass at each 30° turn for the waveform to settle.)

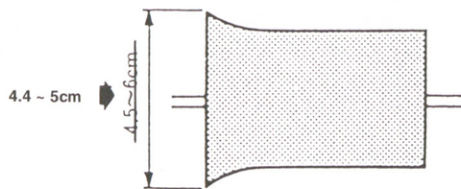


Fig. 7-17

- 2-3) Turn the K1 guide adjusting nut clockwise, and ~~make the RF waveform input side 4 cm wide as illustrated (Fig. 7-19).~~

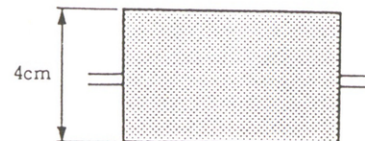


Fig. 7-19

adjust the upper flange so that it touches the tape as illustrated in Fig. 7-19.

Figure 7

PAGE 7-6

- 3-2) Turn the K5 guide adjustmetn nut clockwise, and make the RF output waveform as illustrated in Fig. 7-22.

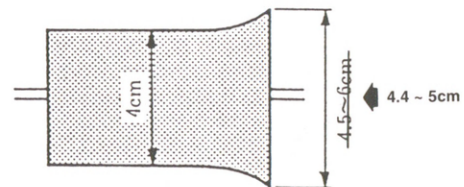


Fig. 7-22

adjust the upper flange so that it touches the tape as illustrated in Fig. 7-23.

- 3-3) Turn the K4 guide adjustment nut clockwise, and ~~make the RF output waveform output side 4 cm wide as illustrated in Fig. 7-23.~~

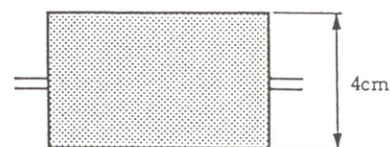


Fig. 7-23

Figure 8

Display

Date: September 21, 1992

Model: GVM-2020/2100

Serial No: ALL

Subject: PROTECTION FROM OVERVOLT-
AGE—Q3504, Q3507

DESCRIPTION

In order to protect Q3504 and Q3507 on the BD board from a possible short circuit caused by overvoltage when turning the unit on or off, solder diode 1SS119 in parallel with R1510 on the A board (solder side, zone B-7/8) as shown in Figures 1 and 2.

PARTS REQUIRED

Part No.	Description	Qty.
8-719-911-19	1SS119 Diode	1

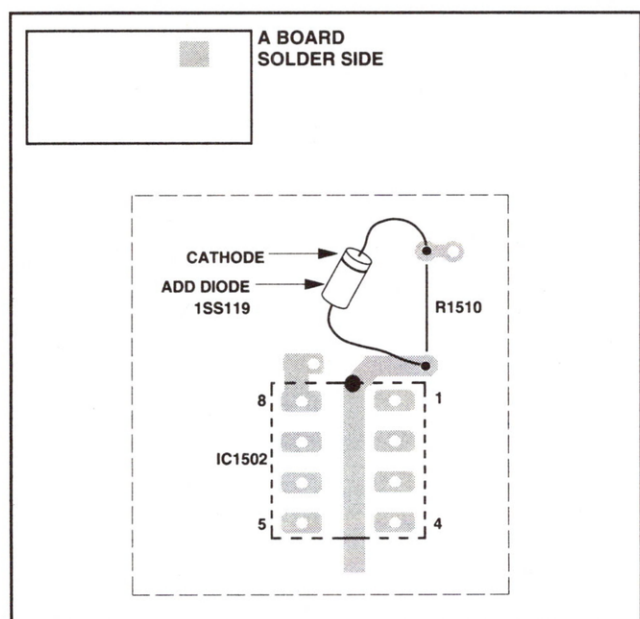


Figure 1

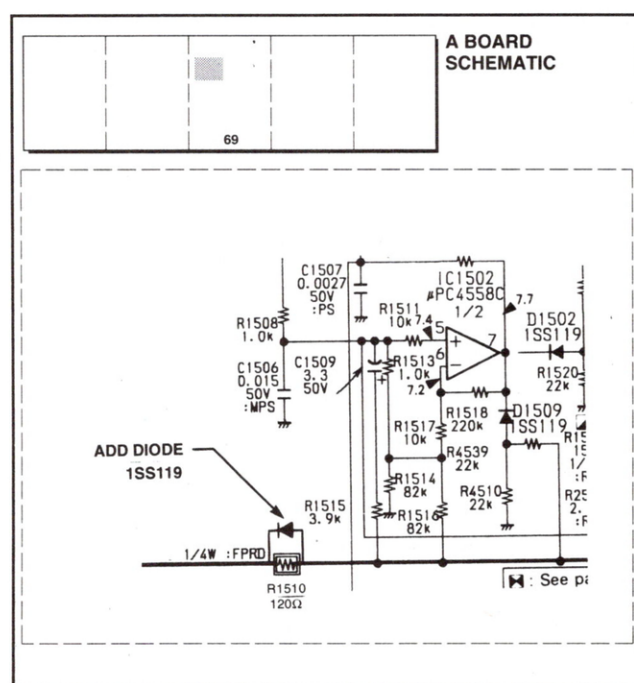


Figure 2

Camera

Date: **September 21, 1992**

Subject: **CCD BLOCK ENHANCED SENSITIVITY**

Model: **DXC-M7**

Serial No: **10,001 AND HIGHER**

DESCRIPTION

The CCD blocks contained in DXC-M7 units with serial numbers 15,001 and higher use a Hyper HAD™ sensor that makes these CCD blocks twice as sensitive as those in former units. The new CCD blocks are compatible for use in all units.

The part numbers of the former and new CCD blocks are identified in Table 1.

Table 1. CCD Block Part Numbers

Unit Serial No.	CCD Block	Part No.
10,001-15,000 15,001 and Higher	Former New	A-7575-136-A A-7575-180-A

NOTE: Sensitivity of the new CCD block is 2,000 lux with F8.0, at 3200K.

Technical Bulletin 92-107

Sony Corporation of America
Business and Professional Group
Technical Publications
677 River Oaks Pkwy, San Jose, California 95134

Display

Date: **September 21, 1992**Subject: **POWER SUPPLY CIRCUIT PARTS
CHANGE**Model: **JTU-22A3/2208/50A1**Serial No: **SEE TEXT**

DESCRIPTION

Transistors Q601 and Q602 on the FG board (G board for JTU-50A1) may sometimes fail in a high temperature environment. When replacing the transistor, also replace capacitors C631 and C632 on the board with 0.0082 μ F capacitors.

JTU-22A3 serial numbers 13,658 and higher have been factory modified; JTU-50A1 serial numbers 21,586 and higher have been factory modified.

PARTS REQUIRED

Part No.	Description	Qty.
1-106-218-00	Cap, 0.0082 μ F/100V	2



VTR

Date: **September 21, 1992**

Subject: **MANUAL CORRECTION—
ADJUSTMENTS**

Model: **SVO-960**

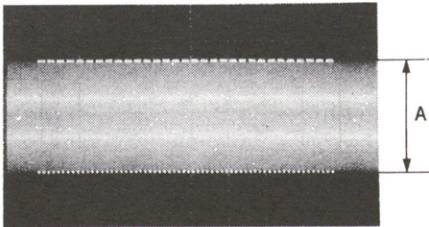
Serial No: **15,701 AND HIGHER**

DESCRIPTION

Correct the SVO-960 Service Manual as shown in Figures 1 through 4.

NOTE: This correction also affects all units that contain the RP-52 suffix -B board.

8-6. AFM REC RF LEVEL ADJUSTMENT
PAGE 8-3

Machine condition for adjustment	Specifications	Adjustments
• CH-1, 2 AUDIO IN: no signal • Insert a cassette tape. • REC mode	CN804-1/RP-52 (B-1)  $A = 200 \pm 10 \text{ mV}$	RV3/AFM-7 (B-4)



$210 \pm 5 \text{ mV}$

Figure 1

PAGE 8-3

ADD
↓

8-6-1. HI-FI AUDIO OA RF LEVEL ADJUSTMENT

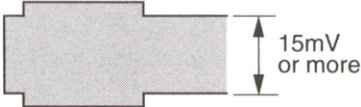
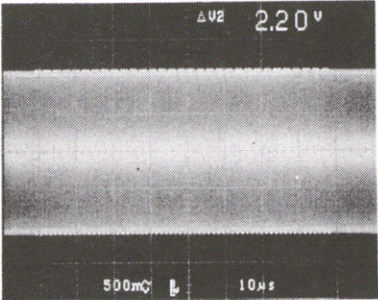
Machine condition for adjustment	Specifications	Adjustment
• VIDEO IN: color bar signal • CH-1, 2 AUDIO IN: no signal • Perform the self-recording/play back with a cassette tape.	Test Terminal, Hi-Fi CH-1 (Front Panel)  If the specification is not satisfied, turn off switch SW1/RP-52.	Trigger: PG Terminal (Front Panel)

Figure 2

9-13. Y REC current ADJUSTMENT
PAGE 9-8

FORMER

Machine condition for adjustment	Specifications	Adjustments
• VIDEO IN: color bar signal • REC mode	CN804-3/RP-52 (B-1)  2.2±0.1V	● RV301/VO-26 (E-1)



NEW

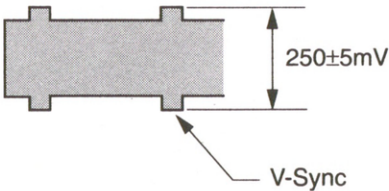
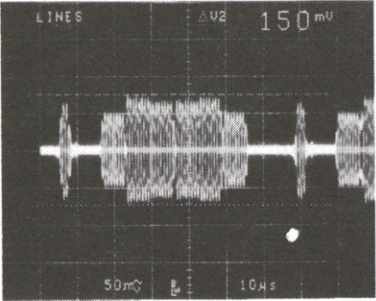
Machine condition for adjustment	Specifications	Adjustment
• VIDEO IN: color bar signal • STOP mode	TP301/VO-26 (E-1) 	● RV301/VO-26 (E-1) Trigger: TP701/YC-43 (C-1) or VIDEO IN

Figure 3

9-14. CHROMA REC CURRENT ADJUSTMENT
PAGE 9-8

Machine condition for adjustment	Specifications	Adjustments
• VIDEO IN: color bar signal • EE mode	TP302/VO-26 (E-1)  150±10mV	RV302/VO-26 (D-1)



100±5mV

Figure 4

Editor

Date: **September 21, 1992**

Model: **BVE-600**

Serial No: **10,001 AND HIGHER**

Subject: **LOSS OF POWER, GENLOCK, OR
 COLOR BARS**

DESCRIPTION

When the BKE-621 board is installed, an incorrect Black Burst output may cause loss of genlock or color bars. These symptoms tend to appear after power has been turned off for a long period of time. To correct this condition, perform the following modification procedure.

NOTE:

- This problem occurs only when the BKE-621 is used, due to the large -12V load. On occasion, power supply protection circuit prevents the BVE-600 from turning on. Normal operation can be resumed temporarily by turning the unit off then back on again.
- Factory-modified units are identified by a green dot under the part number of the switching regulator, as shown in Figure 1.

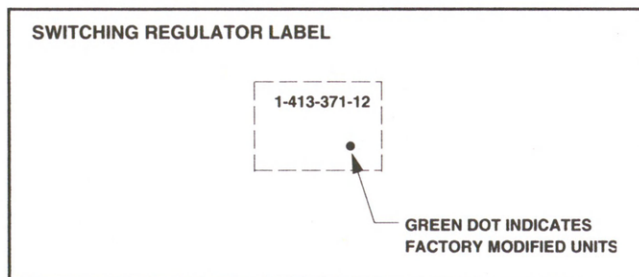


Figure 1

PART REQUIRED

Part No.	Description	Qty.
1-249-438-11	Res, Carbon, 56kΩ, 1/4W, 5% (R513)	1

MODIFICATION PROCEDURE

1. Remove switching regulator as described in BVE-600 Maintenance Manual, Volume 1.
2. Remove three screws, ①, ②, and ③, to remove cover and shield plate, as shown in Figure 2.
3. Pull out 7-pin dc harness.
4. Replace R513 on 741-A board (component side) with 56kΩ carbon resistor, as shown in Figures 3 and 4.

CONFIRMATION

Conduct insulation voltage rating test.

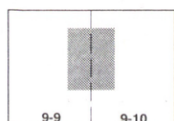
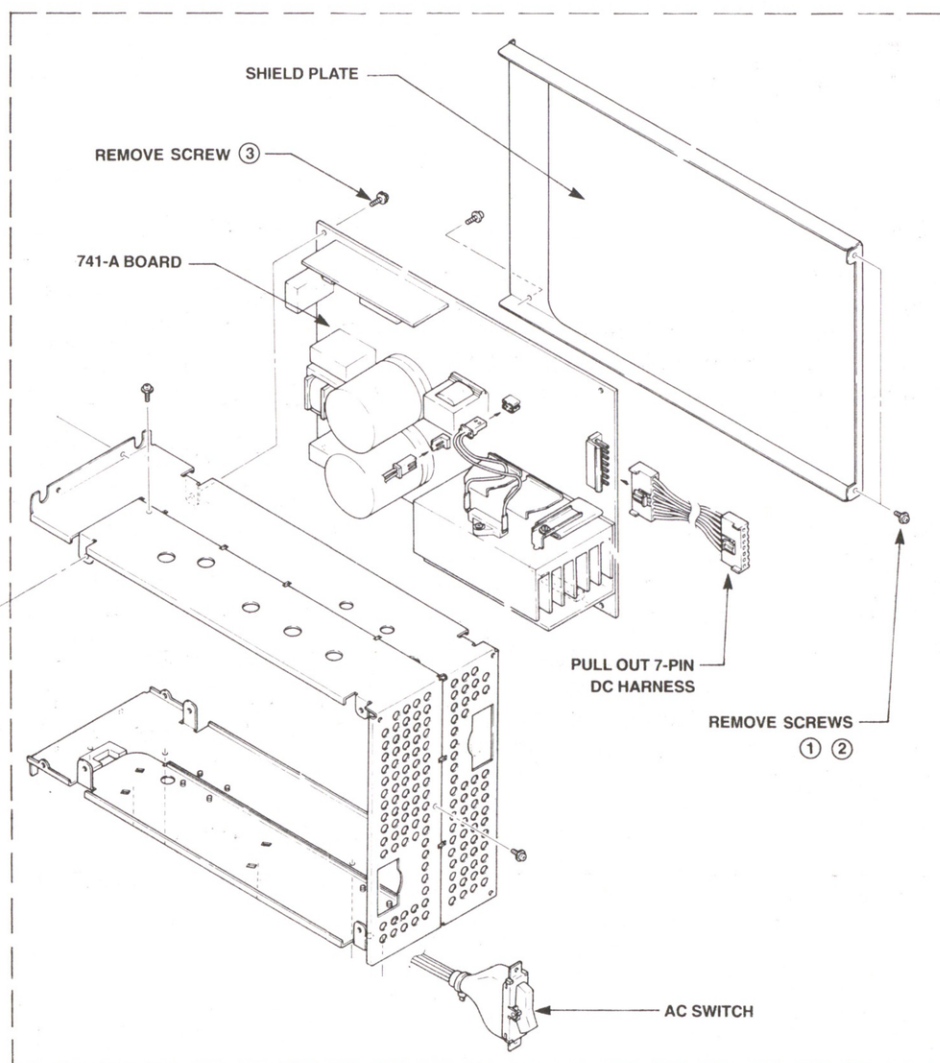
SWITCHING REGULATOR
EXPLODED VIEW

Figure 2

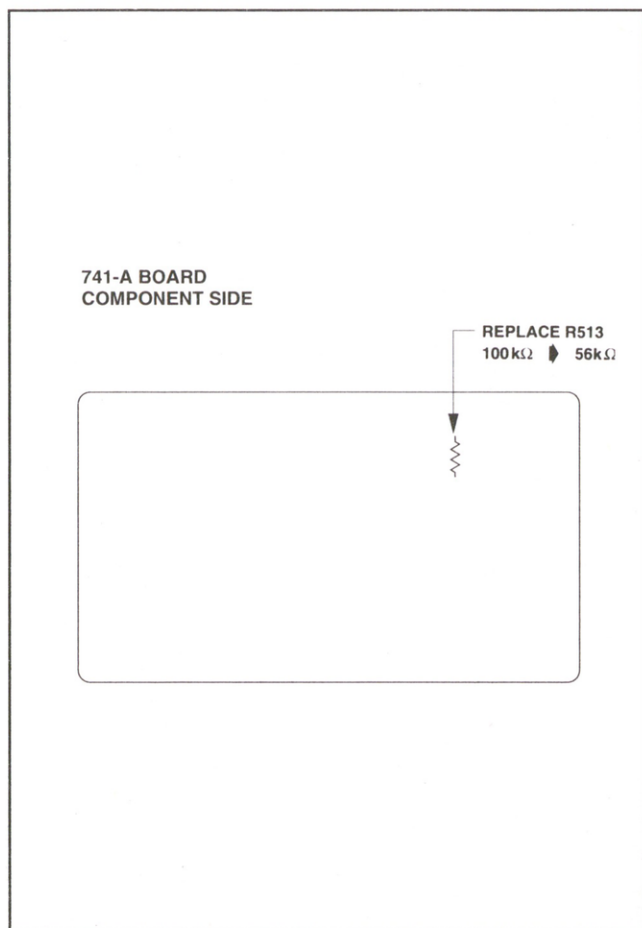


Figure 3

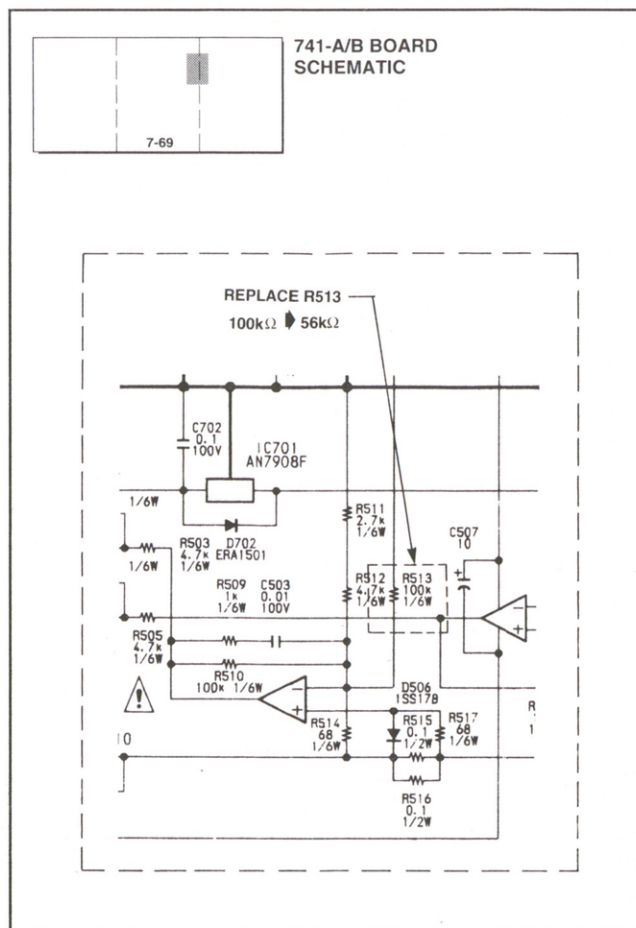


Figure 4

Camera

Date: **October 5, 1992**

Subject: **MANUAL CORRECTION—SPARE PARTS**

Model: **EVW-300**

Serial No: **ALL**

DESCRIPTION

Correct the EVW-300 Service Manual, Volume 2, 1st Edition as shown in Figures 1 and 2.

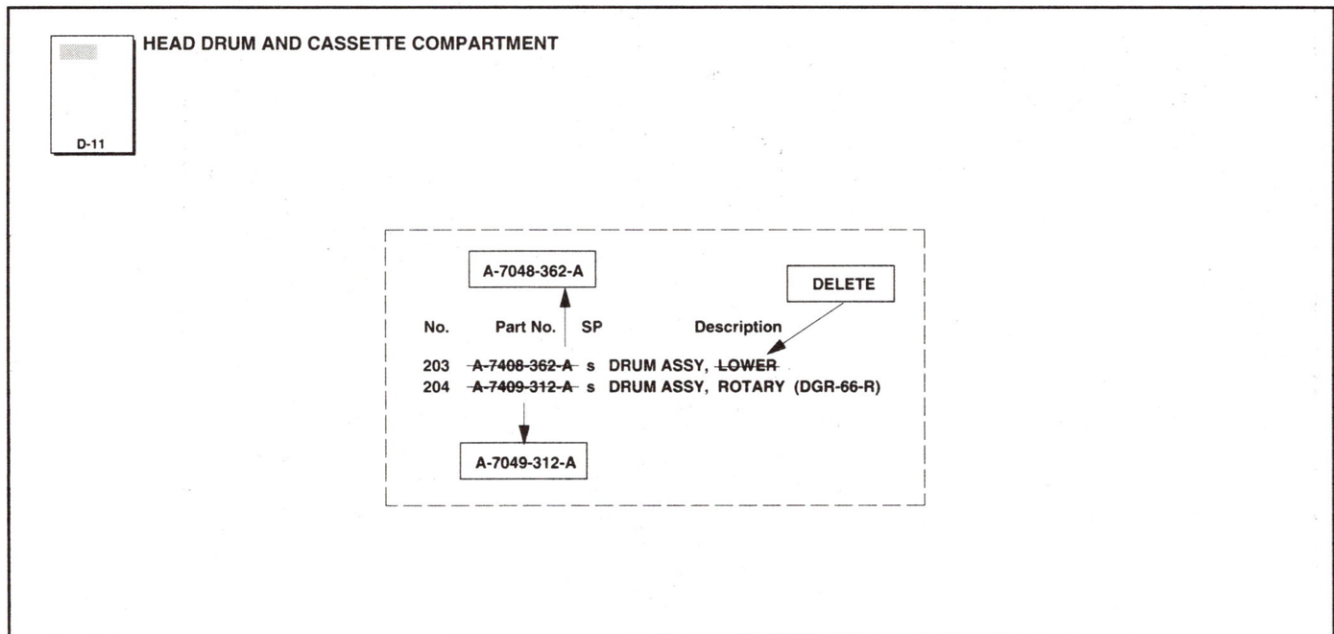
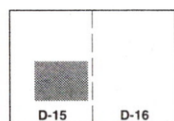
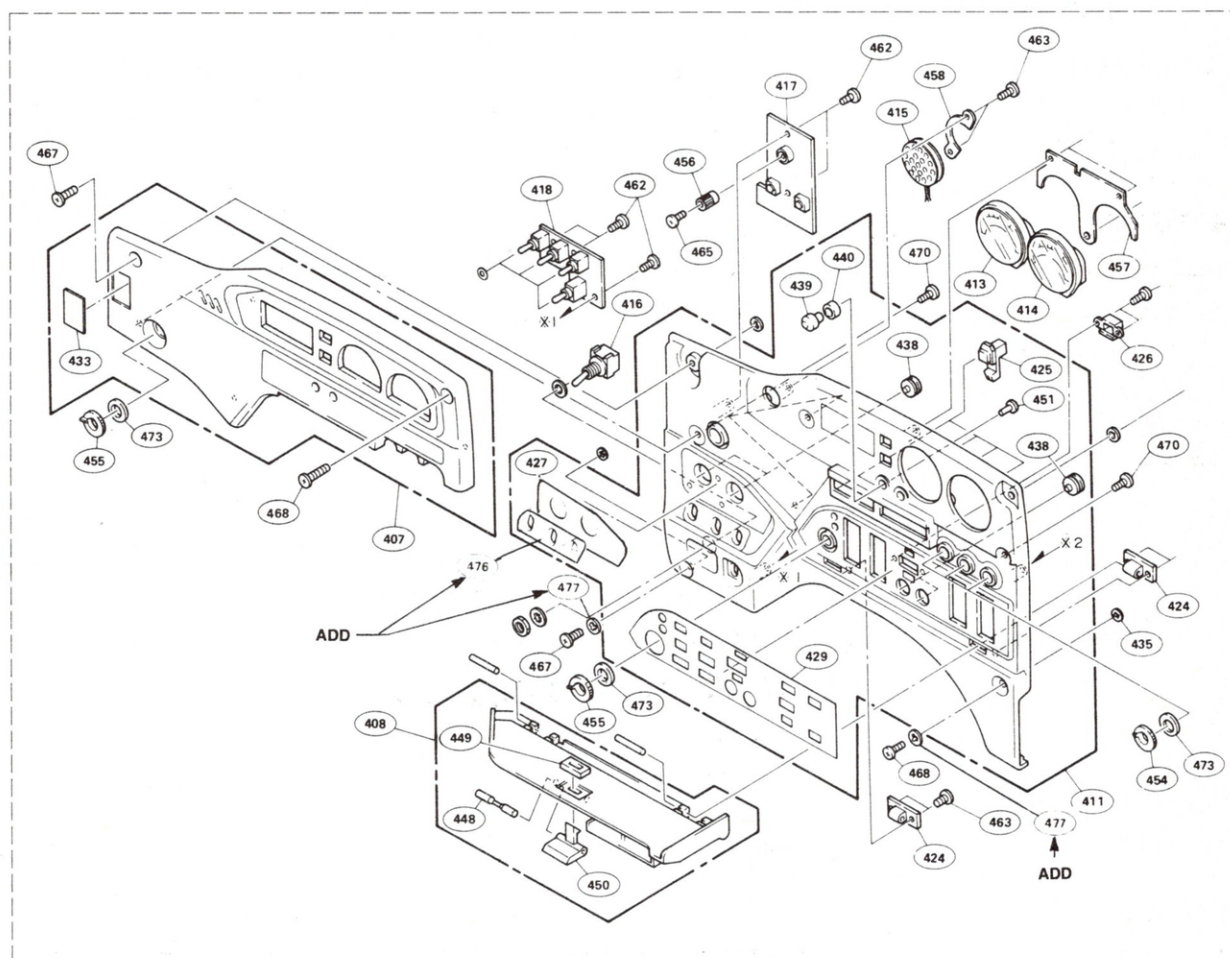


Figure 1



**SIDE PLATE AND HANDLE ASSY
EXPLODED VIEW**



	No.	Part No.	SP	Description
ADD →	476	3-176-043-01	o	LABEL (B)
	477	7-623-308-07	o	LW3, TYPE (A)

Figure 2

Camera

Date: **December 14, 1992**

Subject: **MANUAL CORRECTION—SPARE PARTS**

Model: **EVW-300**

Serial No: **ALL**

DESCRIPTION

Correct the EVW-300 Service Manual, Volume 2, 1st Edition as shown in Figures 1 and 2.

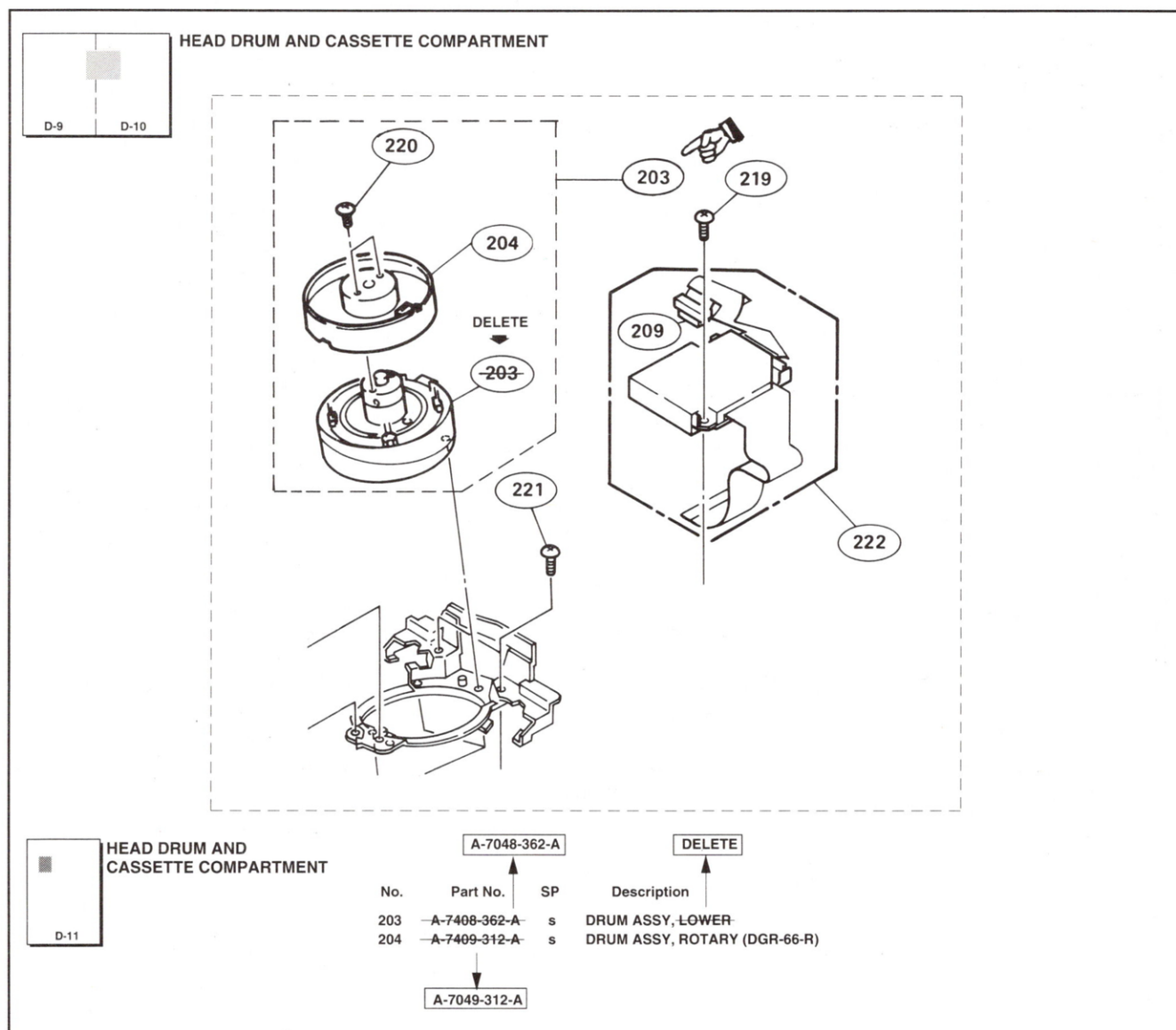
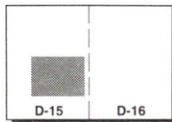
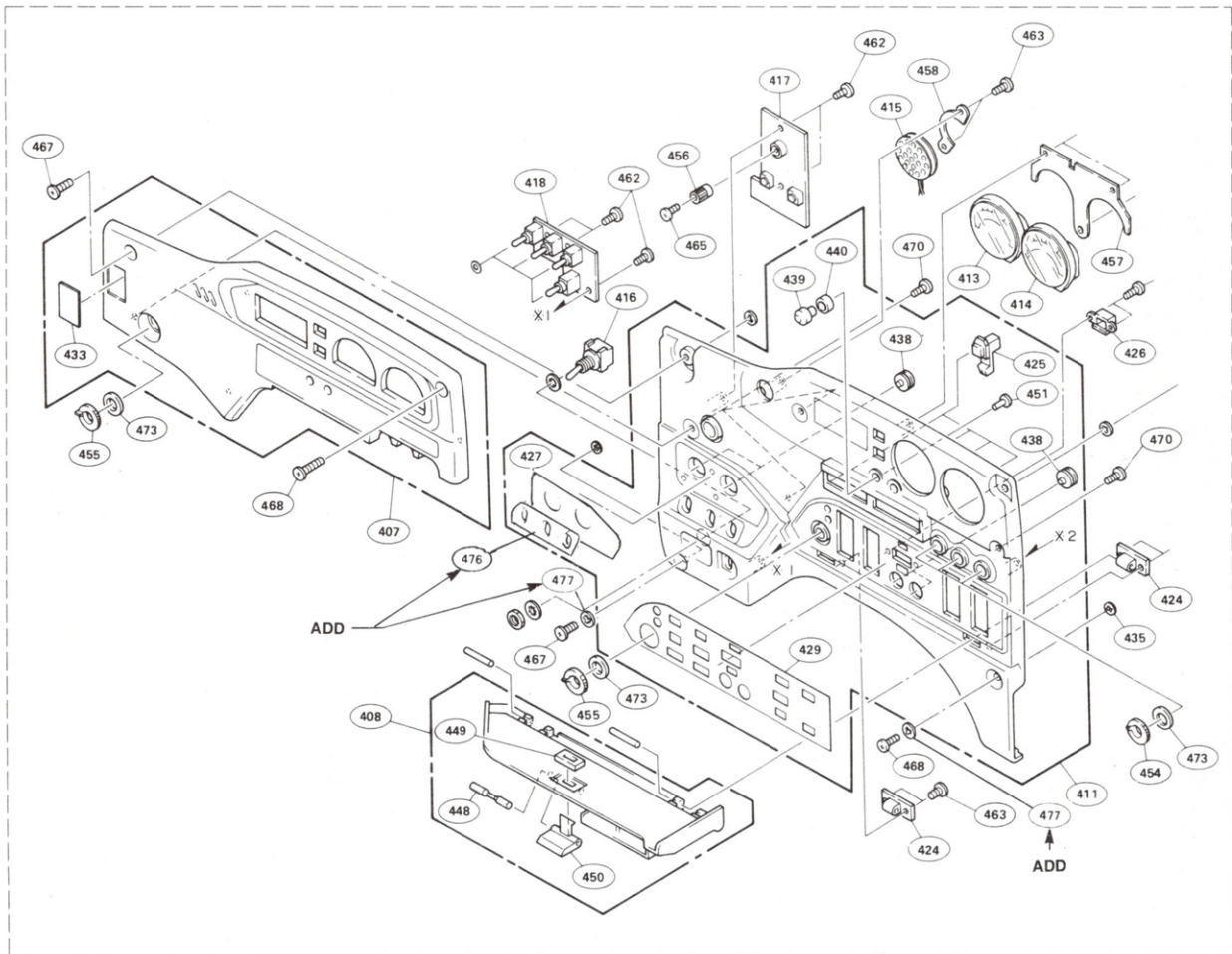


Figure 1



**SIDE PLATE AND HANDLE ASSY
EXPLODED VIEW**



No.	Part No.	SP	Description
476	3-176-043-01	o	LABEL (B)
477	7-623-308-07	o	LW3, TYPE (A)

ADD →

ADD

Figure 2

VTR

Date: **October 5, 1992**

Subject: **POP TRANSIENT DURING AUTO
RECORD MODE**

Model: **MMV-500A/5001V/5002V/5010V**

Serial No: **26 AND LOWER (MMV-500A)
30 AND LOWER (MMV-5001V)
30 AND LOWER (MMV-5002V)
20 AND LOWER (MMV-5010V)**

DESCRIPTION

An audio (pop) transient may sometimes occur during auto record mode when switching the picture from gray video mode to program mode (mute ON to OFF).

To correct this, modify the AUD, AUL, or AUR (depending on MMV model) as described below.

PARTS REQUIRED

Part No.	Description	Qty.
1-123-352-00	Cap, 1 μ F, 50V (C87)	1

MODIFICATION PROCEDURE

(See Figures 1 and 2)

1. Cut trace leading from collector of Q4 (zone A-2).
2. Add jumper between collector of Q4 and C25.
3. Solder 1 μ F capacitor between base of Q4 and ground.

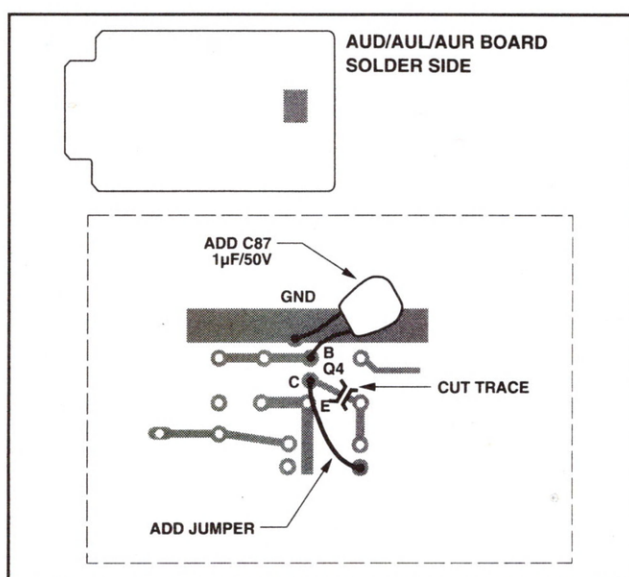


Figure 1

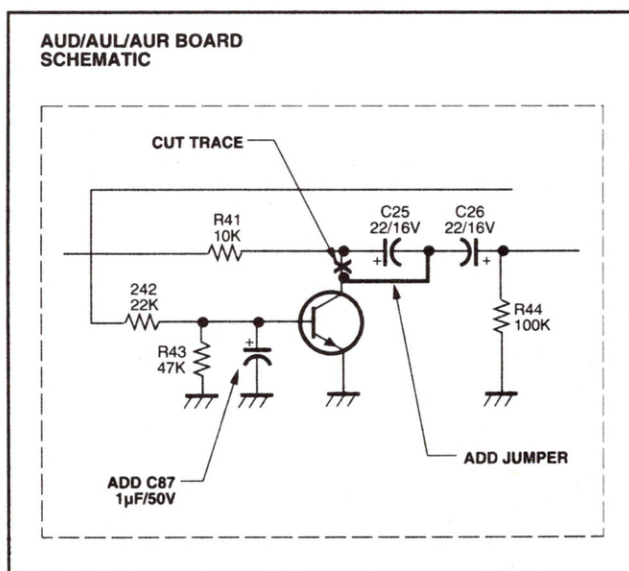


Figure 2

Display

Date: **October 5, 1992**

Subject: **PARTS REGISTRATION—LUX
METER ADAPTER**

Model: **JTU-2208/22A3/50A1**

Serial No: **ALL**

DESCRIPTION

The following Lux Meter Adapter parts are now available as service parts.

- **JTU-2208/22A3**

Lux Meter Adapter Ass'y	X-3165-308-1
Lux Meter Adapter	2-141-966-01
Lux Meter Adapter Lid	2-141-965-01
Lux Meter Holder	2-141-949-01
Screw, +k3x14	

- **JTU-50A1**

Lux Meter Adapter	2-170-371-02
Lux Meter Adapter Lid	2-141-965-01
Lux Meter Holder	2-141-949-01
Screw, +k3x14	

NOTE: Parts are order parts, not stock parts.

Camera

Date: **October 5, 1992**

Subject: **MANUAL CORRECTIONS AND
ADDITIONS**

Model: **EVW-300**

Serial No: **ALL**

DESCRIPTION

Correct the EVW-300 Service Manual, Volume 1, as shown in Figures 1 through 4.

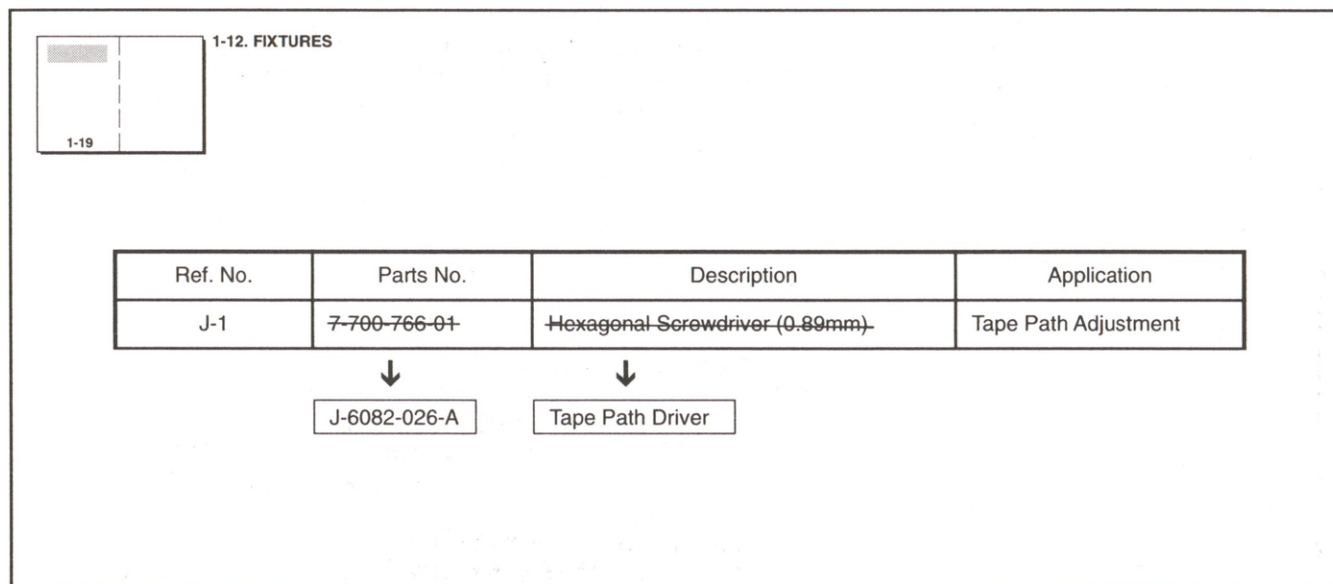


Figure 1



5-1. PREPARATION FOR ADJUSTMENT

Tool: Oscilloscope
Alignment Tape for tracking
(WR5-1NP)

Adjustment procedure:

- (1) Clean tape path surface as Tape Guides, Drum, Capstan Shaft and Pinch Rollers.
- (2) Connect the oscilloscope as follows.
CH-1: CN24 pin 1/MB-384 Board
CH-2: CN24 pin 3/MB-384 Board
TRIG: CH-2
- (3) Play back the alignment tape.
- (4) Check that the RF waveform of both entrance and exit sides are flat. (Fig. A)
- (5) Set the Track Shift mode.
- (6) Check that the form and fluctuation of the RF waveform meet the specification 1. (Fig. B)
- (7) If do not meet the specifications at step (4) and (6), adjust as follows.



Tool: Oscilloscope
Tracking Adjustment Tool JH-541
Alignment tape for tracking
(WR5-1NP for EVW-300)
(WR5-1CP for EVW-300P)

Adjustment Procedure

- (1) Clean tape path surfaces such as Tape Guides, Drum, Capstan Shaft and Pinch Roller.
- (2) Connect the tracking adjustment tool JH-541 to CN24 on the MB-384/384P board. Connect the oscilloscope as follows.
CH-1 : TP4/JH-541
CH-2 : TP5/JH-541
TRIG : TP6/JH-541
- (3) Play back the alignment tape.
- (4) Check that the RF waveform at both entrance and exit sides are flat. (Fig. A)
If there is a level difference between the PCM and video signals, adjust the PCM/RF RATIO control of the tracking adjustment tool JH-541.
- (5) Set the Track Shift mode.
- (6) Check that the form and fluctuation of the RF waveform meet specification 1. (Fig. B)
- (7) If specifications at steps (4) and (6) are not met, adjust as follows.

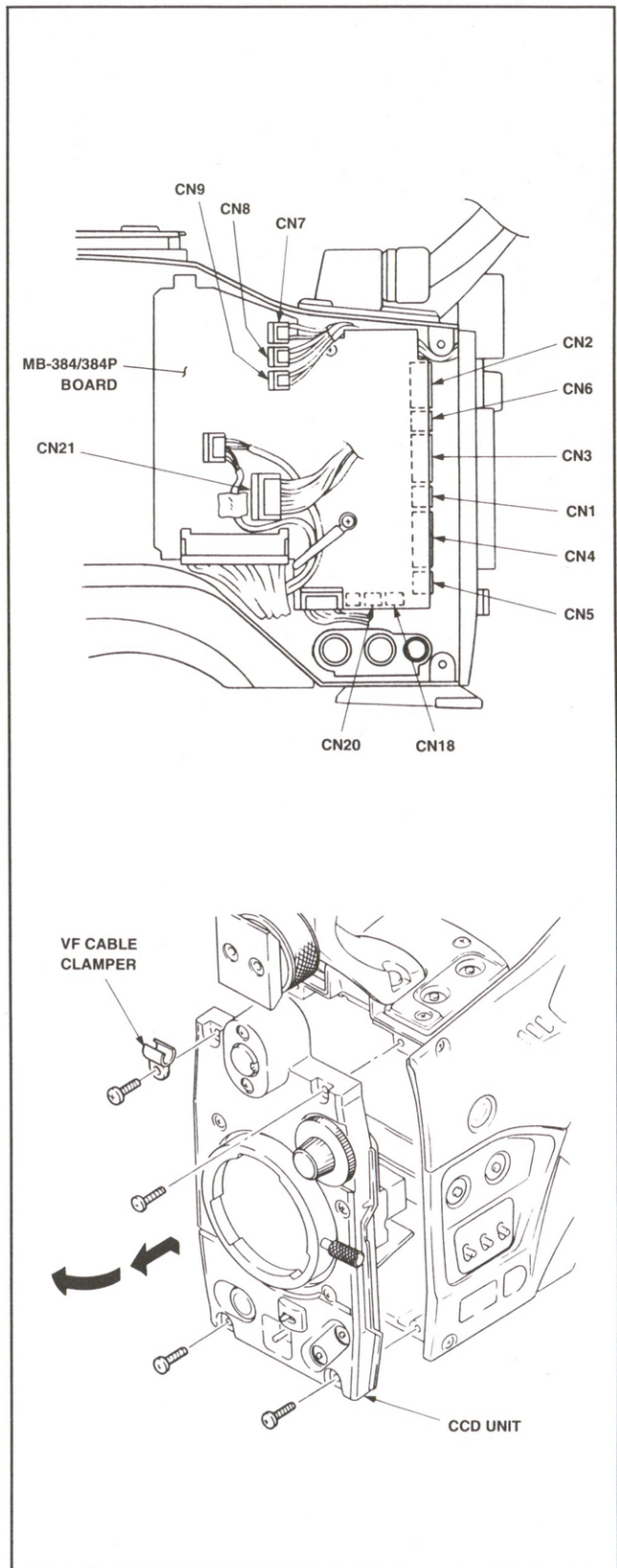
Figure 2

ADD THE FOLLOWING INFORMATION TO SECTION 3, REPLACEMENT OF MAJOR PARTS:**3-23. REPLACEMENT OF CCD UNIT****3-23-1. Replacement of CCD Unit**

- (1) Remove the Side Panel (Left) Assembly referring to Section 1-1.
- (2) Disconnect the four connectors CN7, CN8, CN9 and CN21 on the MB-384/384P board.
- (3) Remove the four screws and pull out the CCD unit slowly.
- (4) Disconnect the eight connectors CN1, CN2, CN3, CN4, CN5, CN6, CN18, and CN20 on the MB-384/384P board.

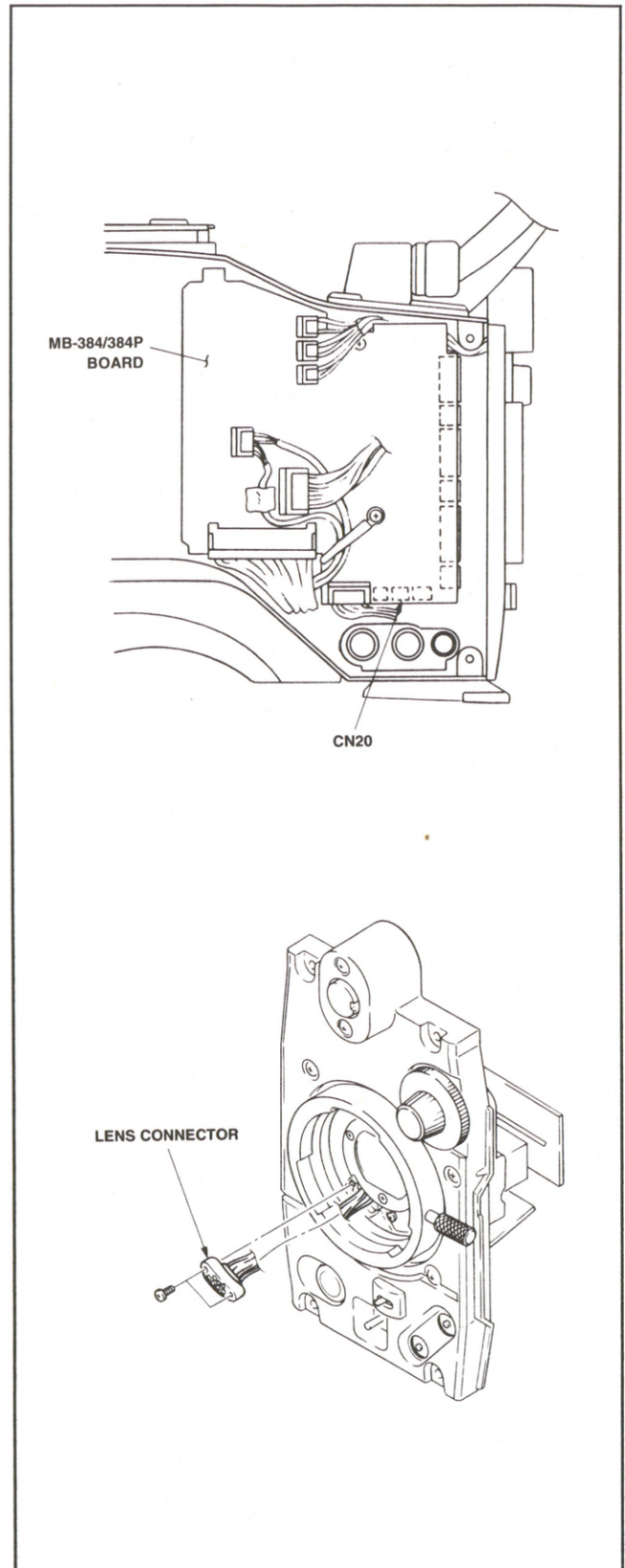
Note: When handling the CCD unit, pay attention not to stress any of PA boards.

- (5) Install the CCD unit in the reverse order of removal.

**Figure 3**

ADD THE FOLLOWING INFORMATION TO SECTION 3, REPLACEMENT OF MAJOR PARTS:**3-23-2. Replacement of LENS Connector**

- (1) Pull out the CCD unit referring to Section 3-23-1, steps 1 to 3.
- (2) Disconnect the connector CN20 on the MB-384/384P board.
- (3) Remove the two screws and pull out the LENS connector.
- (4) After replacing the LENS connector with a new one, assemble the unit in the reverse order of removal.

**Figure 4**

Display

Date: **October 19, 1992**

Subject: **COMPONENT VALUES FOR CP800 AND CP801**

Model: **PVM-8020/9020**

Serial No: **ALL**

DESCRIPTION

The component values for CP800 and CP801 on the DA board are shown in Figures 1 and 2.

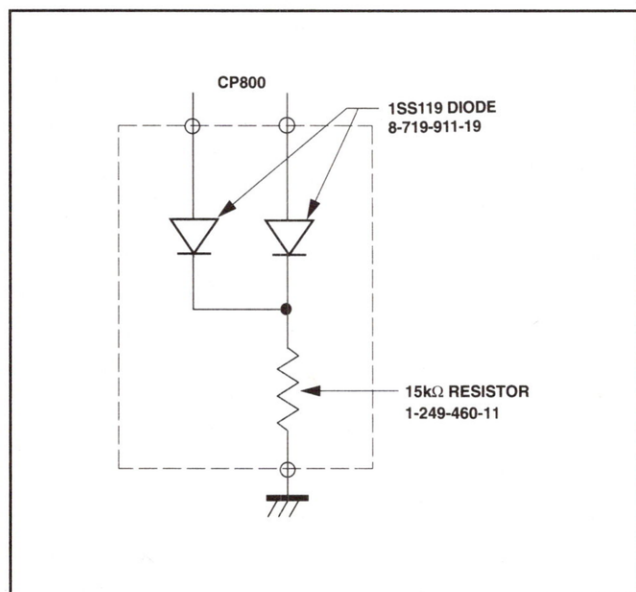


Figure 1

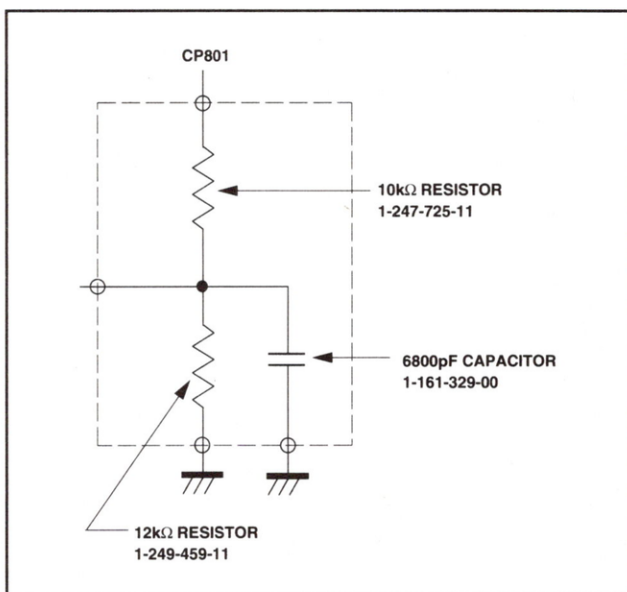


Figure 2

VTR

Date: **October 19, 1992**

Subject: **INOPERATIVE SCREWS WHEN
DXC-327A IS USED**

Model: **CA-512**

Serial No: **10,001-10,095**

DESCRIPTION

When the CA-512 adaptor is used with the DXC-327A camera and the screws securing the adaptor to the camera are tightened excessively, the screws exceed their threads and become inoperative. To correct this condition, replace the camera guide as described in the following procedure.

NOTE: This condition does not occur when the unit is used with the DXC-537.

PARTS REQUIRED

Part No.	Description	Qty.
9-902-592-02	Camera Guide	1
7-682-546-04	Screws, +B3x5	4
7-432-114-11	Locking Compound	1

MODIFICATION PROCEDURE

See Figure 1.

1. Remove four (+B 3x5) screws, to remove former camera guide.
2. Install new camera guide to the unit:
 - a. Apply locking compound to threads of four (+B 3x5) new screws.
 - b. Fasten four new screws to secure camera guide to unit.
3. Ensure that 8mm hole in camera guide center is aligned with 8mm hole on unit.

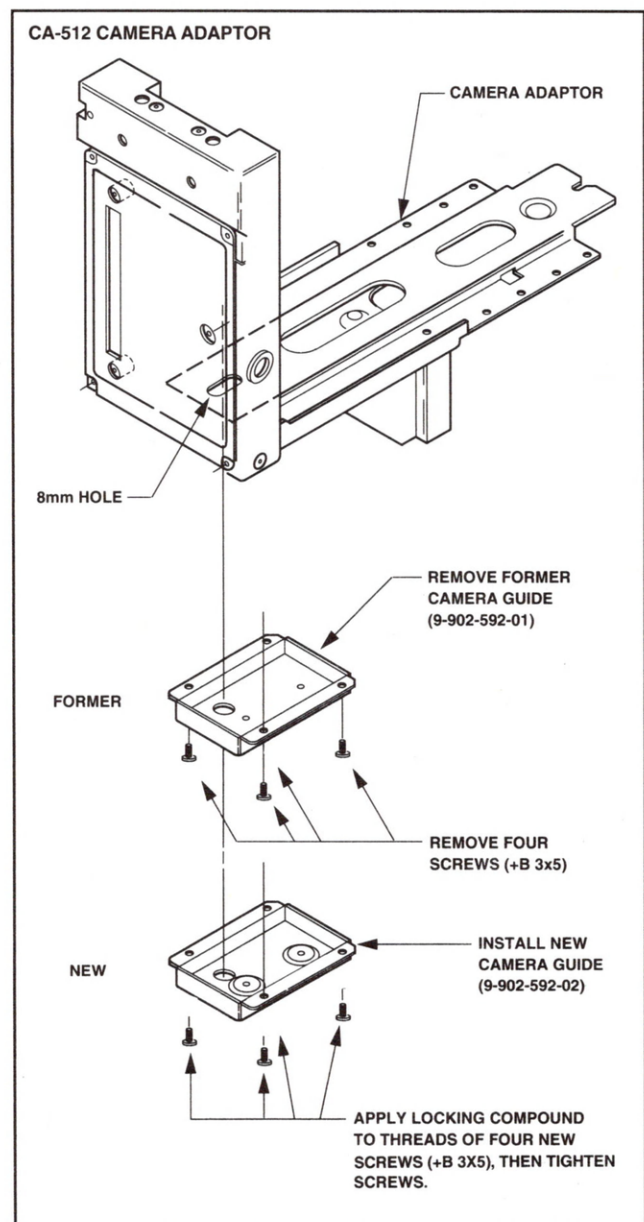


Figure 1

Display

Date: **October 19, 1992**

Subject: **ACHIEVING ASPECT RATIO OF 16:9**

Model: **VPH-1251Q/1271Q**

Serial No: **5,000,001-5,000,701 (VPH-1251Q)**
5,000,001-5,000,581 (VPH-1271Q)

DESCRIPTION

When using the remote control RGB SIZE function to adjust the screen aspect ratio to, for example, 16:9, the vertical picture dimension may not always be reduced sufficiently to achieve a precise aspect ratio (16:9). To correct this condition, replace R1581, R1582, and R1583 on the DB board (solder side) with new 11k Ω metal chip resistors as shown in Figure 1.

PARTS REQUIRED

Part No.	Description	Qty.
1-216-676-11	Res, Metal Chip, 11k Ω , 5%, 1/10W (R1581, 1582, 1583)	3

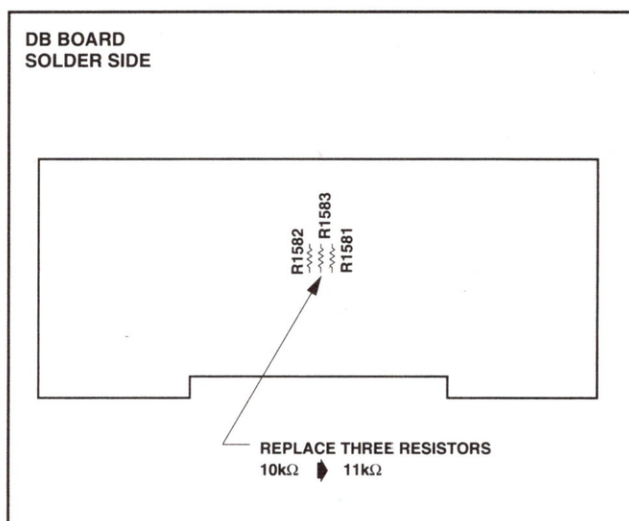


Figure 1

Display

Date: **October 19, 1992**

Subject: **NEW CRT NECK ASSEMBLY**

Model: **RVP-400Q/6000Q,
VPH-1251Q/1271Q**

Serial No: **SEE TEXT**

DESCRIPTION

The clamp and its position on the picture tube neck assembly (NA366) have been changed:

Former

CRT Neck Ass'y
(NA366)
1-452-429-21



New

CRT Neck Ass'y
(NA366)
1-452-429-11

As shown in Figure 1, the clamp is now positioned at the front of the neck assembly, nearer to the deflection yoke. When repositioning the former part, it is necessary to attach UL cotton tape (7-651-302-25) to the CRT as shown in Figure 2.

Applicable to the following serial numbers:

RVP-400Q	5,000,201 AND LOWER
RVP-6000Q	5,000,284 AND LOWER
VPH-1251Q	5,000,501 AND LOWER
VPH-1271Q	5,000,581 AND LOWER

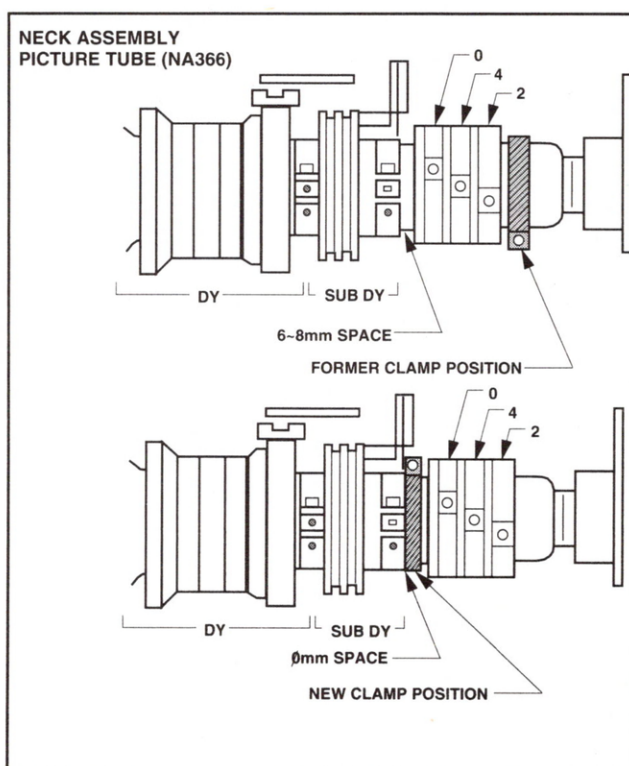


Figure 1

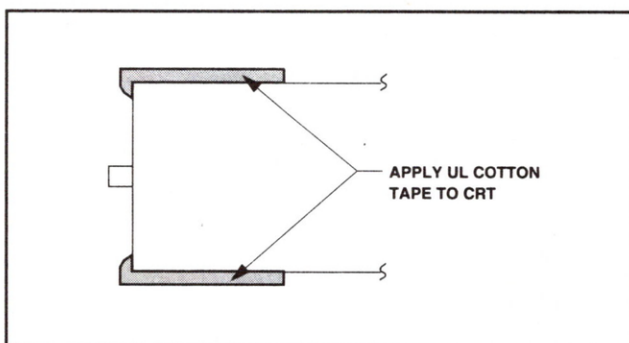


Figure 2

VTRDate: **October 19, 1992**Subject: **MANUAL ADDITION—DRUM SERVO
ADJUSTMENT**Model: **MMV-5010V**Serial No: **ALL****DESCRIPTION**

Add the following pages to the MMV-500A/500A-A/5010V Service Manual, 2nd Edition, Volume 4 only (Sony part number 2-994-153-01).

NOTE: Although similar information is provided in Volume 2, do not add the following pages to Volume 2. The drum servo adjustment for the MMV-5010V differs slightly from the MMV-500A adjustment procedure.



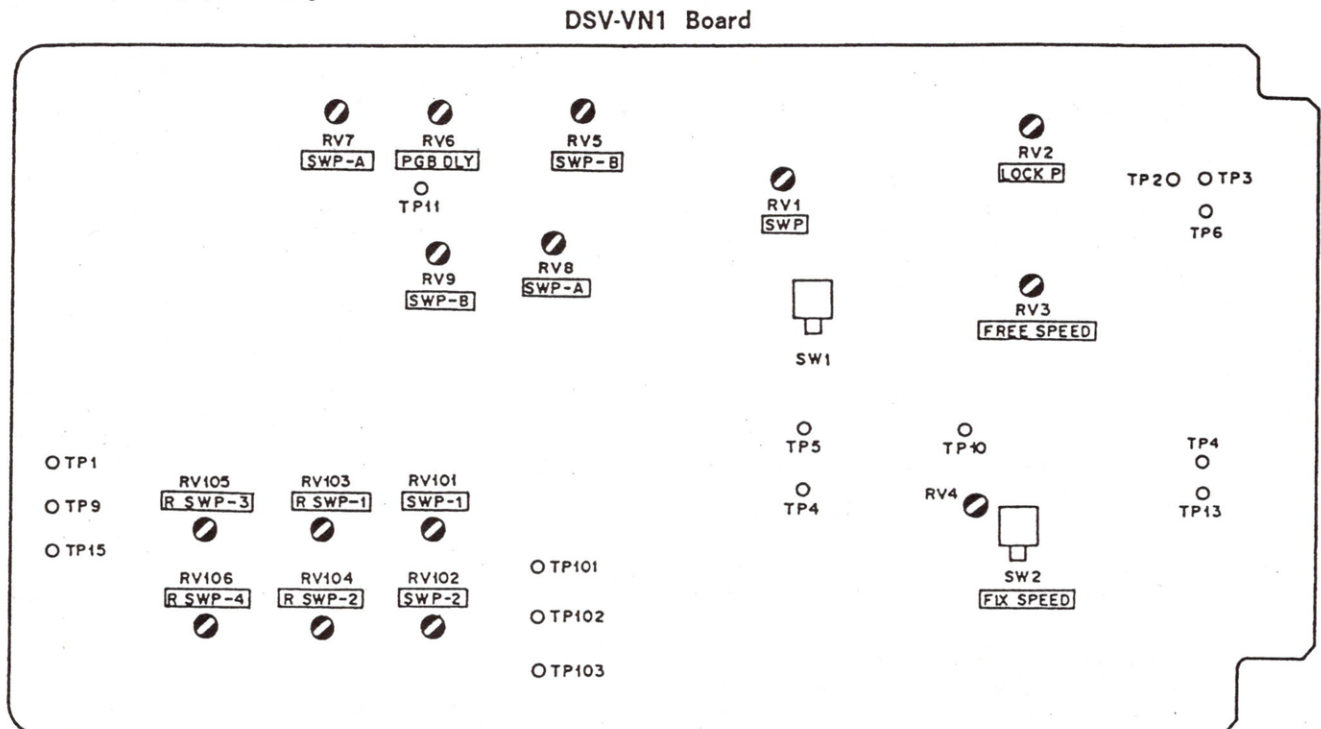
3-2. DRUM SERVO CIRCUIT ADJUSTMENT (DSV-VN1 BOARD)

The drum servo circuit mainly servo controls the rotation of the drum and also generates the REC SW pulse and RF SW pulse.

[Prior to adjustment]

- Input the color bar signal to the connector panel VIDEO IN.
- Set the EIA/CCIR switch (SW1) to EIA side.

[Board adjusting positions]

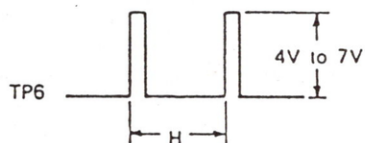


1. Checking the input signal

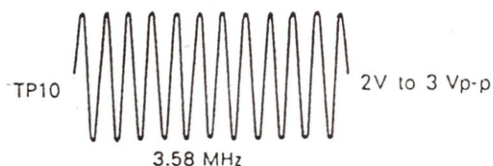
Measuring instrument : Oscilloscope

Mode : STOP

1) Checking REC SYNC



2) Checking subcarrier



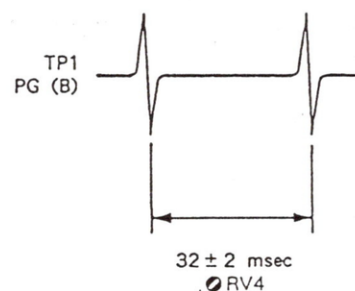
2. Adjustment of FIX speed

Measuring instrument : Oscilloscope

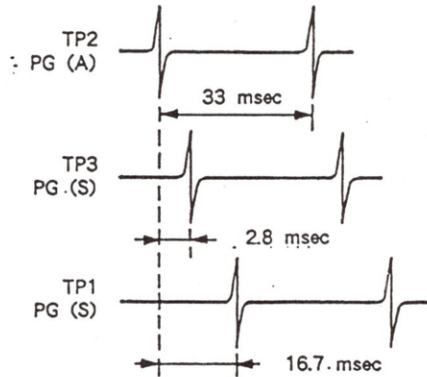
Mode : STOP

Setting of switch : FIX SPEED SW (SW2) : ADJ side

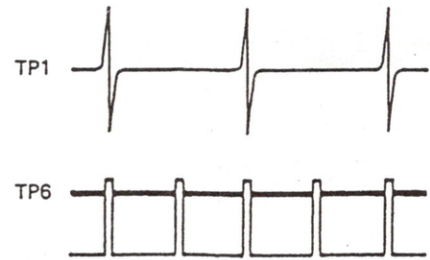
1) Adjustment of speed



2) Checking PG output



3) Check the TP1 (PG B) and TP6 (REC SYNC) are locked.

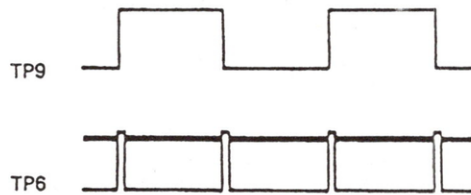


TP1 and TP are in sync.

3) FIX SPEED SW (SW2) : Return to the NOR side.

3. Checking 1/2VD

Measuring instrument : Oscilloscope
Mode : STOP

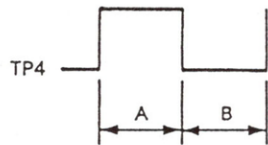


TP9 and TP6 are in sync.

4. Adjustment of free speed

Measuring instrument : Oscilloscope
Mode : STOP

- 1) Short-circuit the edge connector pin 29 to GND.
- 2) Adjustment of P-PWM duty



TP4 : A = B
RV3

5. Adjustment of RF switching pulse

Measuring instrument : Oscilloscope

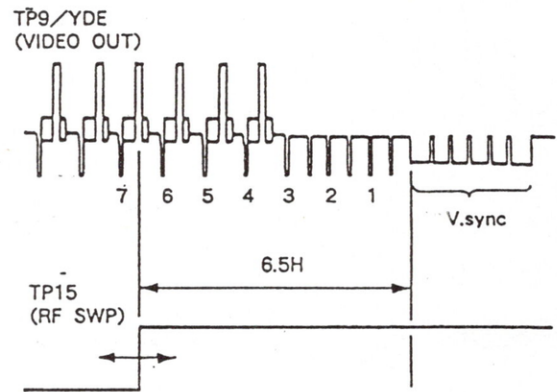
Mode : PLAY (Play back the alignment tape.)

Alignment tape : VP614 : Color bars

1) Adjustment of lock phase

TP15 : 6.5H before V.sync.

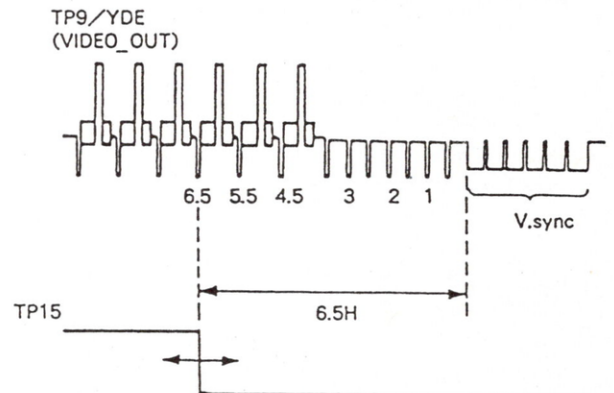
RV2



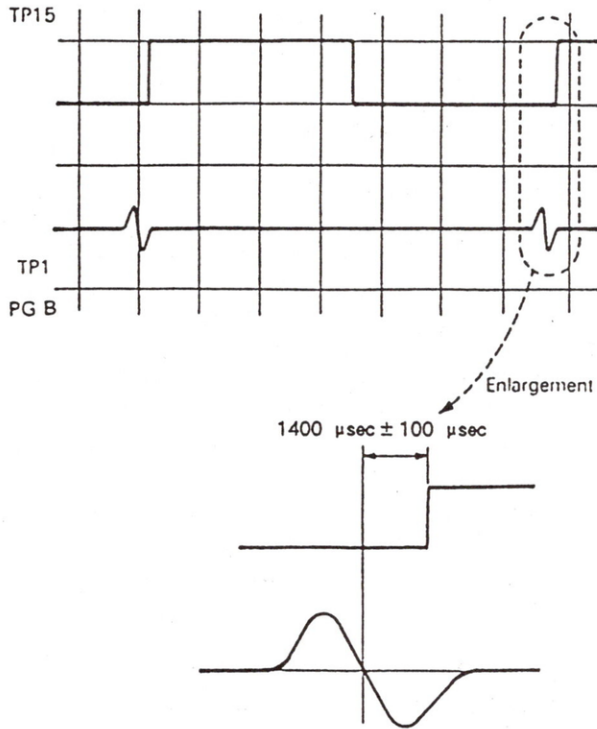
2) Adjustment of RF SWP duty

TP15 : 6.5H before V.sync.

RV1



3) Checking lock phase



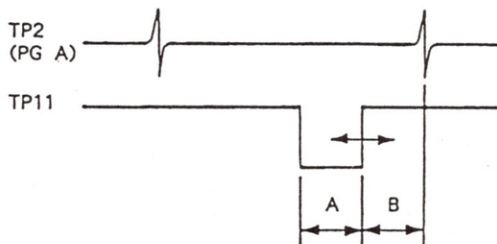
At this point, check the phases of PG B (TP1) and SW pulse (TP15).

6. Adjustment of REC switching pulse

Measuring instrument: Oscilloscope
Mode: REC

Input signal: Color bar

1) Adjustment of Delay PG B

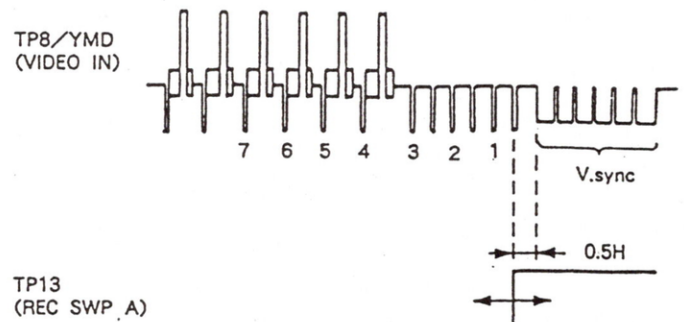


TP11 : A = B
RV6

2) Adjustment of REC SWP A

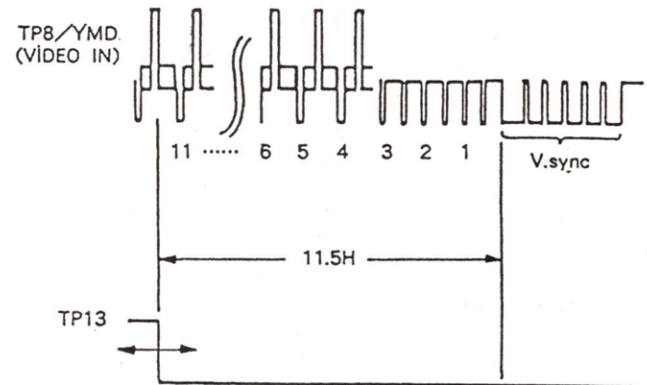
TP13 : Rises 0.5H before V.sync.

RV8



TP13 : Rises 11.5H before V.sync.

RV7



3) Adjustment of REC SWP B

Adjust similar to REC SWP A.

TP14 : Rises 0.5H before V.sync.

RV9

TP14 : Falls 11.5H before V.sync.

RV5

7. Checking RF switching pulse

Switching pulse check (TP15)

Check it locks with 1/2VD (TP9) during the drum stop mode and with PG B (TP2) during the drum lock.

8. Adjustment of AFM REC SWP1

Measuring instrument : Oscilloscope

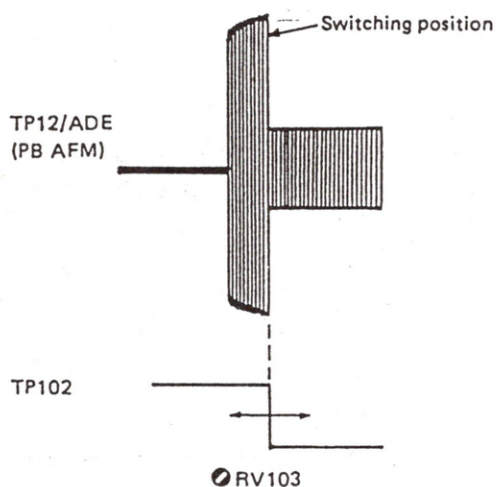
Mode : REC → PLAY

Switch setting : Hi-Fi audio switch of the control panel : On

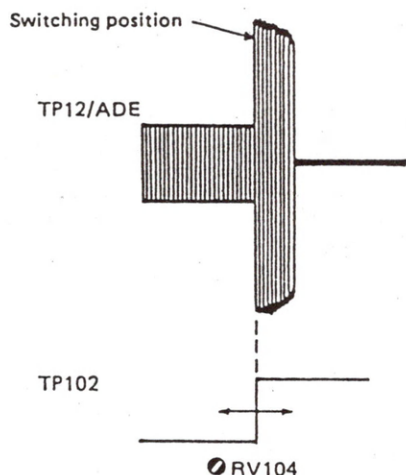
Input signal : 50 % flat field

Non-signal for the audio input.

- 1) Make recording by turning the B-CH switch (SW2/AMD) off, A-CH switch (SW3/AMD) on, and RSW (SW1/AMD) off.
- 2) Play back the recorded section by turning the RSW switch (SW1/AMD) on.
- 3) ⒶRV101 : Turn fully counterclockwise
ⒶRV102 : Turn fully clockwise
- 4) TP102 : Match the falling to the REC switching position of the video.



- 5) TP102 : Match the rising to the REC switching position of the video.



9. Adjustment of AFM REC SWP2

Measuring instrument : Oscilloscope

Mode : REC → PLAY

Switch setting : Hi-Fi audio switch of the control panel : On

Input signal : 50 % flat field

Non-signal for the audio input.

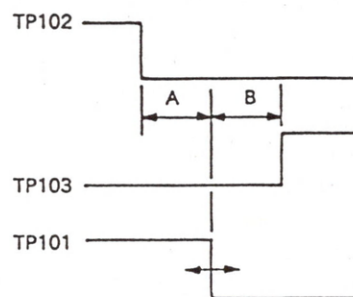
- 1) Make recording by turning the B-CH switch (SW2/AMD) on, A-CH switch (SW3/AMD) off, and RSW switch (SW1/AMD) off.
- 2) Play back the recorded section by turning the RSW switch (SW1/AMD) on.
- 3) ⒶRV101 : Turn fully clockwise.
ⒶRV102 : Turn fully counterclockwise.
- 4) Similarly to the AFM REC SWP2, it is TP103 : Match the falling to the REC switching position of the video.
- ⒶRV106
- 5) TP103 : Match the rising to the REC switching position of the video.
- ⒶRV105

10. Adjustment of AFM RF SWP

Measuring instrument : Oscilloscope

Mode : PLAY

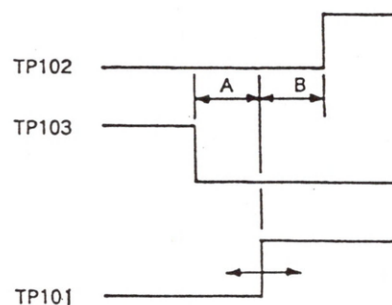
- 1) Adjustment of the falling position of TP101



TP101 : A = B

ⒶRV101

- 2) Adjustment of the rising positive of TP101



TP101 : A = B

ⒶRV102

Camera

Date: **November 2, 1992**

Subject: **IMPROVED VIEWFINDER**

Model: **DXC-325/327, EVW-325/327**

Serial No: **14,801 AND HIGHER (DXC-325)**
12,171 AND HIGHER (DXC-327)
14,801 AND HIGHER (EVW-325)
12,171 AND HIGHER (EVW-327)

DESCRIPTION

The viewfinder in the above units has been changed as follows:

- Resolution: 400 lines → 550 lines
- Flare: Approximately 6 dB
- Circuit is protected against CRT internal discharge.

NOTE:

- Electron gun in the CRT has been changed in shape and size.
- Color of transparent outer panel in the CRT has been changed to gray.
- Resistor has been added to cathode output in the FBT.

Former		New
CRT 1-546-078-11	→	CRT 1-546-078-21
FBT 1-439-419-11	→	FBT 1-439-419-12

VTR

Date: **November 2, 1992**

Subject: **NO TRIGGER OUTPUT FROM X VALUE
ADJUSTMENT TOOL**

Model: **SVO-960/9500MD/9600
SVP-9000**

Serial No: **ALL**

DESCRIPTION

When the X value adjustment tool, marked VH071 and shown in Figure 1, is used with the units identified above, the trigger signal is sometimes not output. To correct this condition, replace IC3 (TC4528BP) with MC74HC4538N.

PARTS REQUIRED

Part No.	Description	Qty.
8-759-000-01	IC3 (MC74HC4538N)	1

**X VALUE ADJUSTMENT TOOL
(J-6380-710-A)**

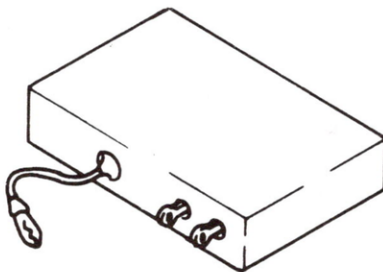


Figure 1

Peripheral

Date: **November 2, 1992**

Subject: **MANUAL CORRECTION—SWITCH
SETTING WHEN RM-450 IS USED**

Model: **SVBK-140**

Serial No: **ALL**

DESCRIPTION

Correct the SVBK-140 Service Manual (9-977-508-01) as shown in Figure 1.

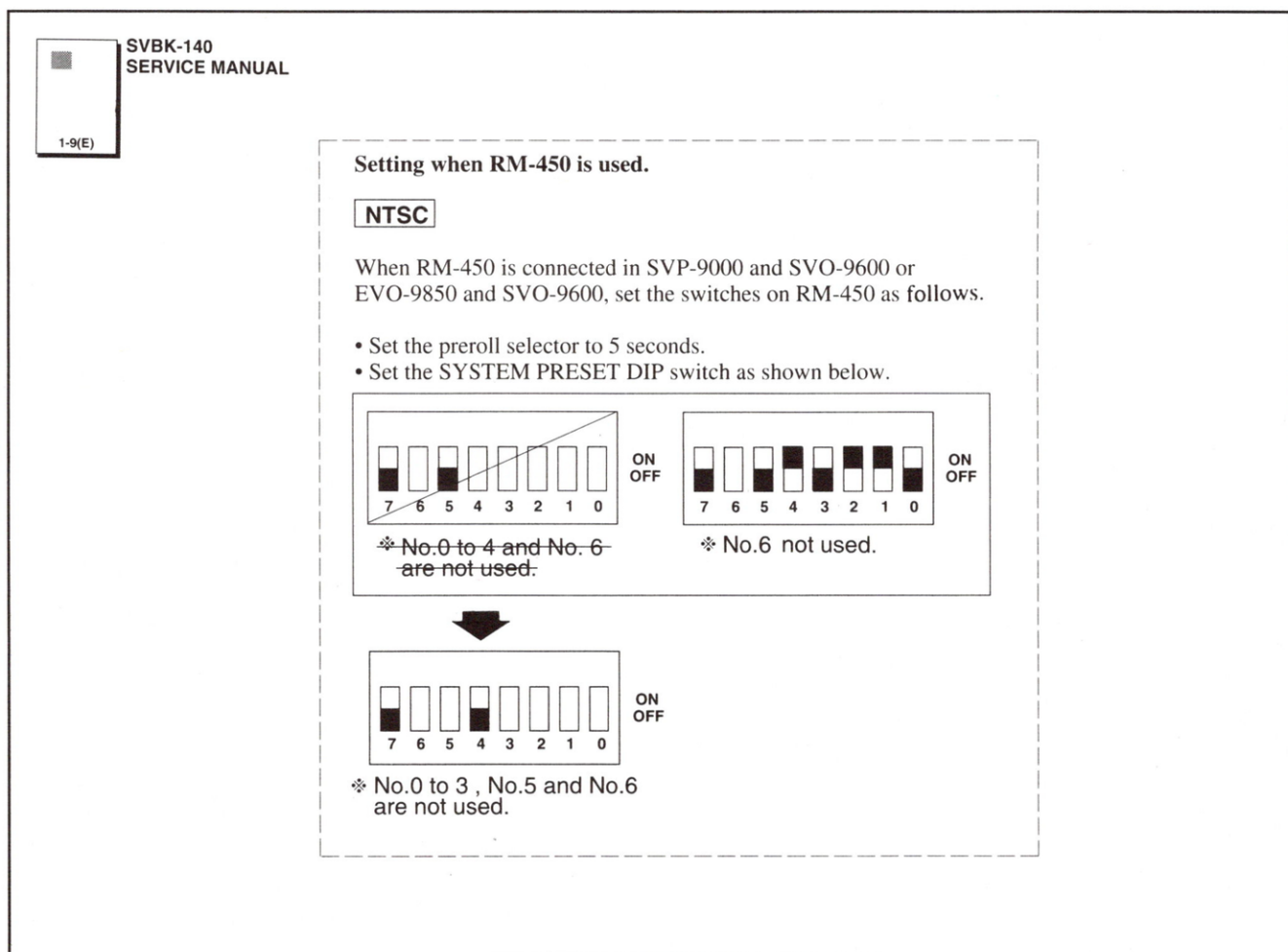


Figure 1

VTR

Date: **November 2, 1992**

Subject: **INOPERATIVE CASSETTE CHANGER**

Model: **SVCC-960**

Serial No: **13,391-15,600**

DESCRIPTION

After approximately 300 hours of use, the cassette changer may become inoperative, because the screws that secure the left pusher assembly may come loose and fall due to insufficient locking compound. To correct this condition, perform the following modification procedure.

PARTS REQUIRED

Part No.	Description	Qty.
7-621-772-68	Screw, +B2x12	2
7-432-114-11	Locking Compound	1

MODIFICATION PROCEDURE

1. Apply locking compound to new +B2x12 screws as shown in Figure 1.
2. Replace two +P2x12 (white) screws securing left pusher assembly with two new +B2x12 screws.

NOTE: To facilitate replacement, only loosen one screw at a time.

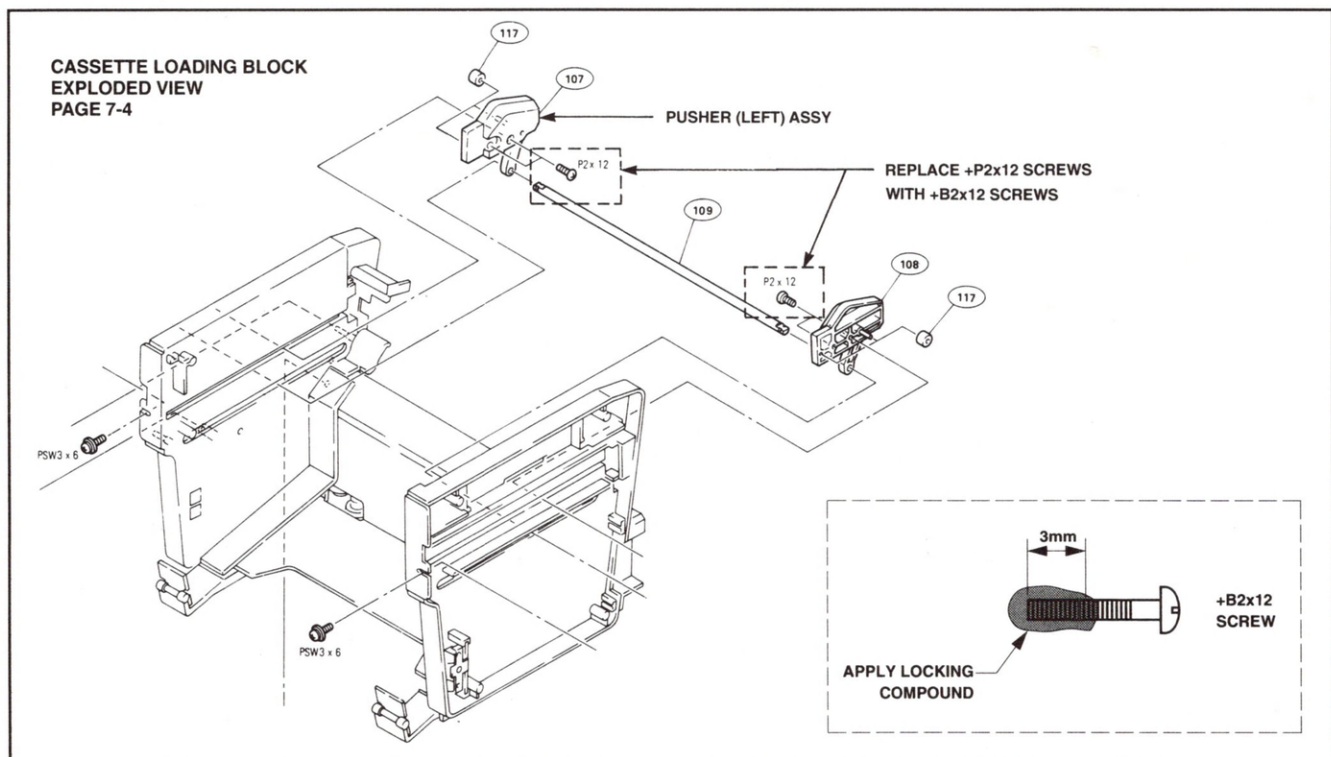


Figure 1

Display

Date: **November 2, 1992**

Subject: **NEW PART—HIGH VOLTAGE
 REGULATOR TRANSISTOR**

Model: **VPH-1030Q/1031Q**

Serial No: **ALL**

DESCRIPTION

New high voltage regulator transistors are now available as shown in Figure 1. New and former parts are compatible.

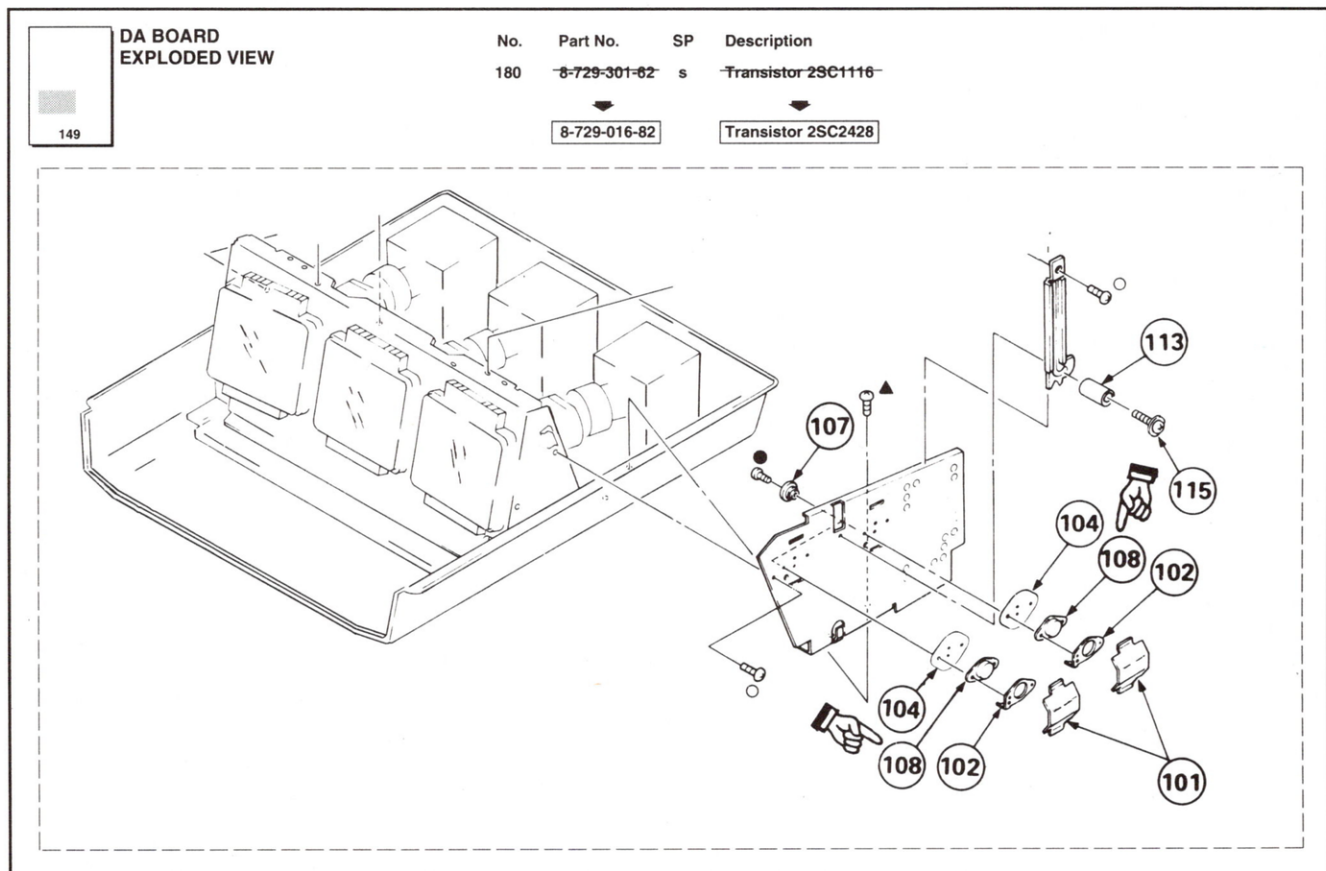


Figure 1

VTR

Date: **April 27, 1992**

Subject: **FLEXIBLE CARD WIRE
 REPLACEMENT**

Model: **PVW-2600/2800**

Serial No: **ALL**

DESCRIPTION

During cassette compartment operation, the flexible card wire may become caught on peripheral devices and be broken or damaged. To prevent this, replace the flexible card wire with a shorter one, as described in the following modification procedure.

PARTS REQUIRED

Part No.	Description	Qty.
1-690-106-11	Flexible Card Wire, 180mm	1
1-690-106-12	Flexible Card Wire, 170mm	1

MODIFICATION PROCEDURE

180mm Flexible Card Wire

1. Fold one end of flexible card wire as shown in Figure 1.
2. Secure slackened wire around boss (a) as shown in Figures 1 and 3.
3. Continue with steps 2 through 8 below.

170mm Flexible Card Wire

1. Fold one end of flexible card wire as shown in Figure 2.
2. Pull connectors CN933 and CN934 in direction of arrow A until they stop. (See Figure 3.)
3. Insert one end of flexible card wire fully into connector CN934.
4. Press connector CN934 in direction of arrow B.
5. Insert folded end of flexible card wire fully into connector CN933.
6. Press connector CN933 in direction of arrow B.
7. Secure flexible card wire with two bosses (a) and (b) on right chassis (see Figure 3), passing wire inside connecting rod to reduce slack.
8. Verify proper cassette compartment operation.

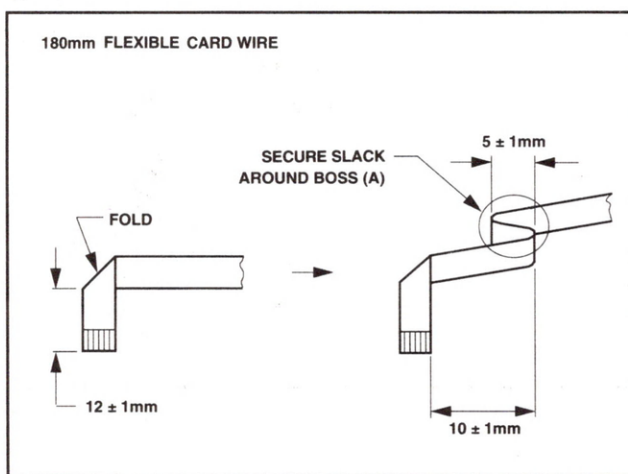


Figure 1

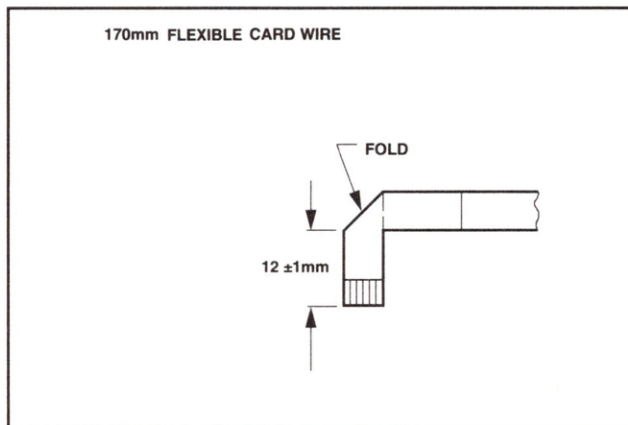
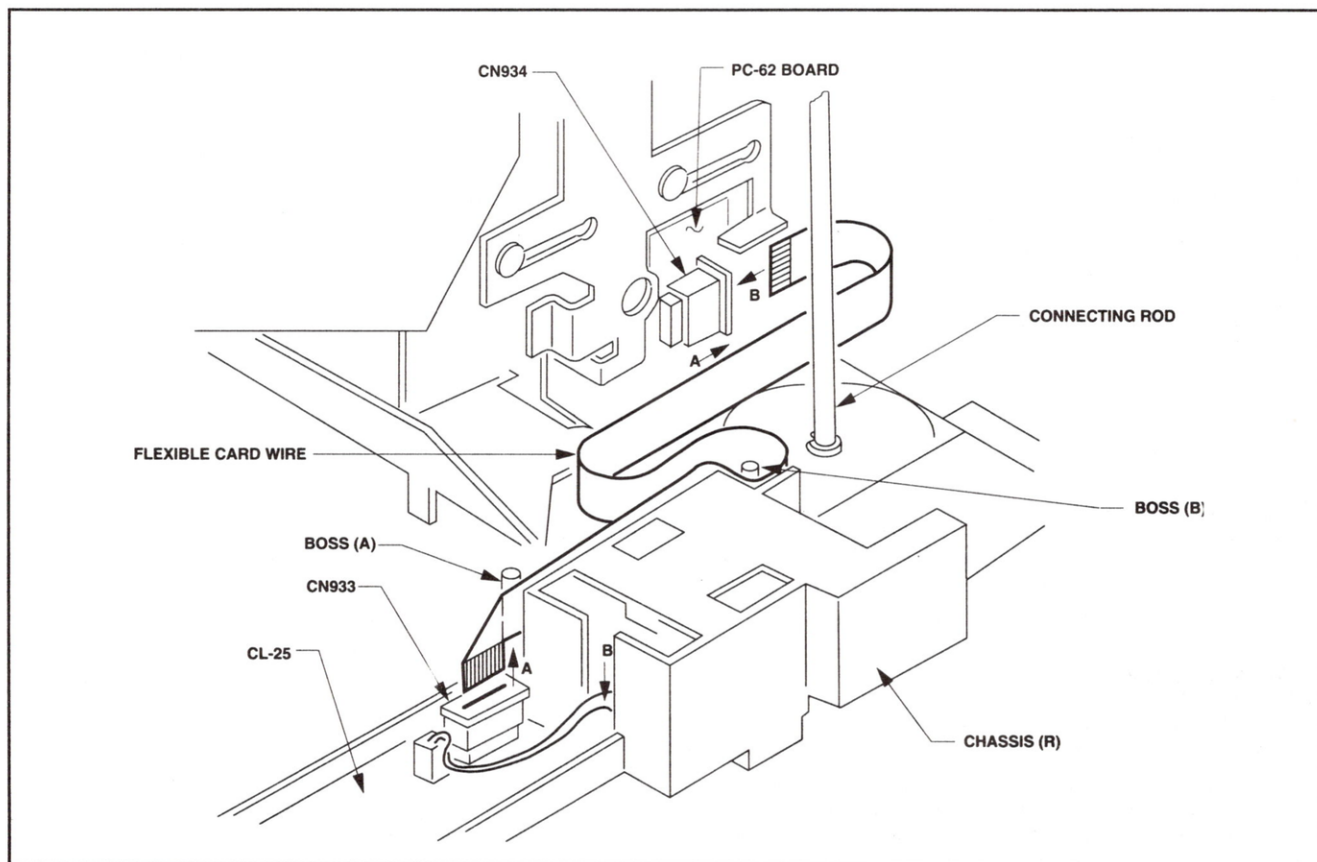


Figure 2

**Figure 3**

VTR

Date: **November 2, 1992**

Subject: **BRIGHT FLICKERING PICTURE DURING PAUSE MODE**

Model: **EVO-9500/9500A/9700**

Serial No: **ALL**

DESCRIPTION

During playback pause mode, a bright flickering picture, similar to a monoscope pattern, may sometimes be observed.

To correct this, replace R710 on the HK-4 board with a 150kΩ resistor as shown in Figure 1.

PARTS REQUIRED

Part No.	Description	Qty.
1-216-101-00	Res, Chip, 150kΩ, 1/10W	1

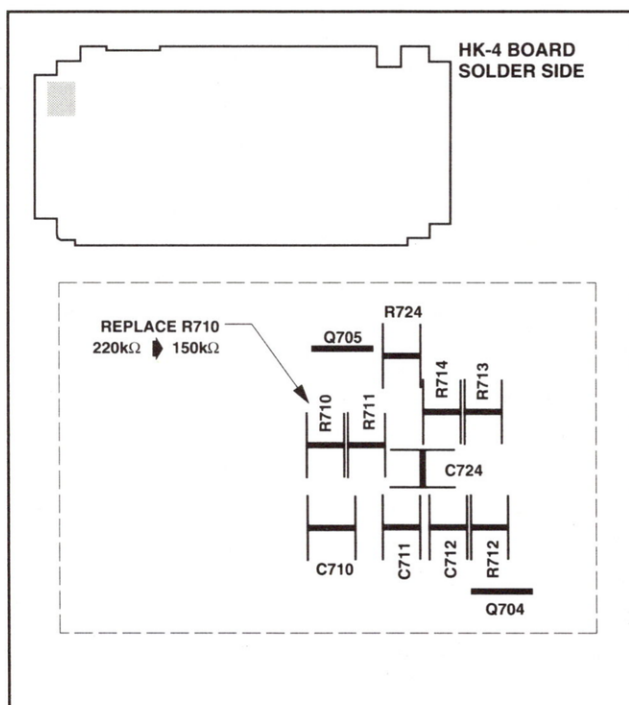


Figure 1

Video Conferencing

Date: **November 2, 1992**

Model: **PCS-S1200**

Serial No: **10,001-10,055**

Subject: **FIRMWARE UPGRADE—VERSION
1.1/1.2**

DESCRIPTION

Version 1.1/1.2 firmware is now available. Install new ICs according to the table below.

PROGRAM IMPROVEMENT

When a VTR connected to the above unit is in record mode, the PCS-S1200 automatically detects the VTR line output video signals, which are connected to the AUX line input, thereby preventing recording over a previously recorded tape.

When a VTR is used that generates a signal at the line output without an input signal (such as a blue background field during E-E mode), and the system requires VTR recording in local and remote modes, an error message "REC FAIL" no longer appears on the main VTC system monitor, and the VTR record operation can be performed.

PARTS REQUIRED

Part No.	Description	Qty.
8-759-087-11	27C512-S1200ROM1V1.2 (ICJ3/SCR-1A)	1
8-759-087-12	27C512-S1200ROM2V1.2 (ICJ5/SCR-1A)	1
8-759-087-13	D8751H-S1200V1.1 (IC12/SIR-2)	1

CONFIRMATION

When VTR recording is performed, the unit will start the record sequence without first checking the initial VTR condition (e.g., video already on tape). Therefore, verify that a VTR is properly connected to the unit before starting a VTR record sequence. Refer to the instruction manual for further information.

ORDERING INFORMATION

To order the new firmware, contact:

Sony National Parts Center
8281 N.W. 107th Terrace
Kansas City, MO 64153
(816) 891-7550
FAX: (816) 891-2580

VTR

Date: **November 2, 1992**

Subject: **U AND U' MECHANISM REPAIR
KITS**

Model: **EVO-9100, EVV-9000, EVW-300**

Serial No: **ALL**

DESCRIPTION

U and U' mechanism repair kits are now available, and are described in Table 1. An instruction booklet is supplied with each parts kit. EVV-9000 and EVO-9100 are U Mechanism models; EVW-300 is a U' Mechanism model.

NOTE: Motors and cassette compartments are not included in the kits, and must be ordered separately.

Table 1

Description	Part No.	Contents
U, U' Mechanism Chassis Kit (1) (EVO-9100, EVV-9000, EVW-300)	A-7040-298-A	All parts common to both U and U' Mechanism types
U Mechanism Chassis Kit (2) (EVO-9100, EVV-9000)	A-7040-299-A	Parts for the U Mechanism only, such as drum base, dew sensor, mode switch, etc.
U' Mechanism Chassis Kit (3) (EVW-300)	A-7040-314-A	Parts for the U' Mechanism only, such as drum base, dew sensor, mode switch, etc.
Sony Grease SGL-701 (Black)	7-662-010-08	
Mitsubishi Diamond Oil Hydro-fluid NT-68	7-661-018-18	

Camera

Date: **November 2, 1992**

Subject: **CHANGING VF MARKER INDICATION**

Model: **EVW-300**

Serial No: **10,001 AND HIGHER**

DESCRIPTION

The viewfinder (VF) marker indication has been factory set as follows:

Marker Switch	VF Display
OFF	Nothing appears.
1	90% safety zone appears.
2	90% safety zone and center marker appear.

Three other options for setting the VF marker indication are listed below. To change the VF marker indication, perform the appropriate modification procedure of the selected option.

PART REQUIRED

Part No.	Description	Qty.
1-216-821-11	Res, Chip, 1kΩ	1 or 2

MODIFICATION PROCEDURE

AT-70 Board

Solder Side (See Figures 1 and 2.)

Option 1

To change safety zone from 90% to 80%, solder 1kΩ chip resistor at R129 location (zone I-5).

VF marker indication will display:

Marker Switch	VF Display
OFF	Nothing appears.
1	80% safety zone appears.
2	80% safety zone and center marker appear.

Option 2

To indicate center marker only, solder 1kΩ chip resistor at R130 location (zone H-5).

VF marker indication will display:

Marker Switch	VF Display
OFF	Nothing appears.
1	Nothing appears.
2	Center marker appears.

Component Side (See Figures 2 and 3.)

Option 3

To indicate safety zone and center marker:

1. Replace R125 (zone G-5) with a 1kΩ chip resistor.
2. Solder jumper between IC26-1 (zone G-5) and IC27-15 (zone I-5).

VF marker indication will display:

Marker Switch	VF Display
OFF	Nothing appears.
1	90% safety zone appears.
2	Center marker appears.

NOTE: To achieve the following VF display, perform both options 1 and 3.

Marker Switch	VF Display
OFF	Nothing appears.
1	80% safety zone appears.
2	Center marker appears.

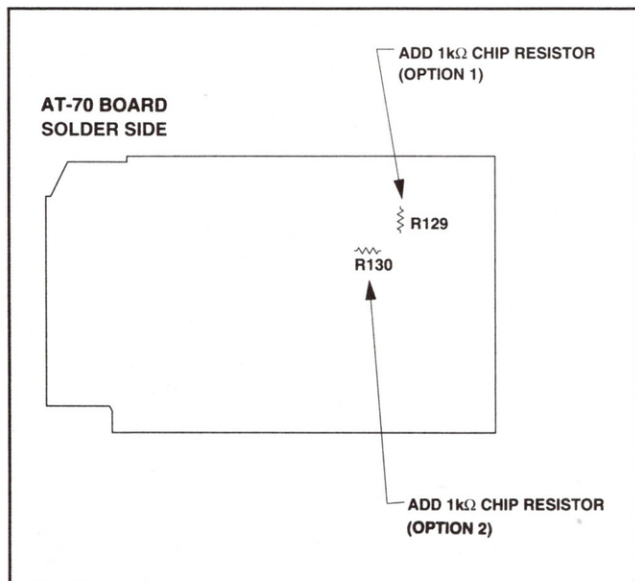


Figure 1

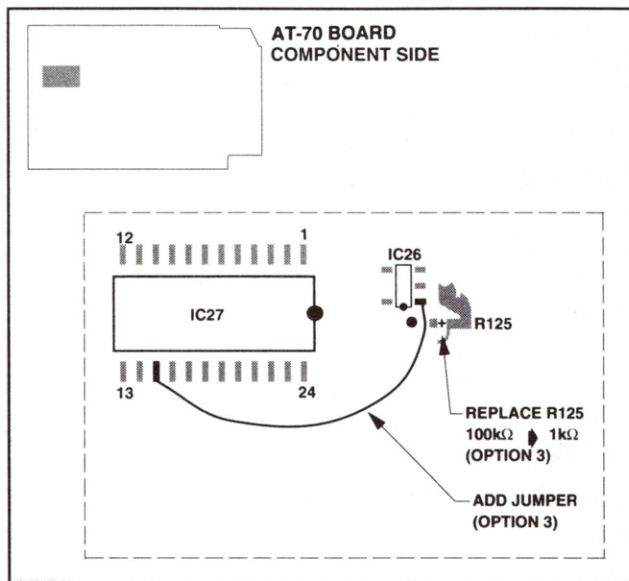


Figure 3

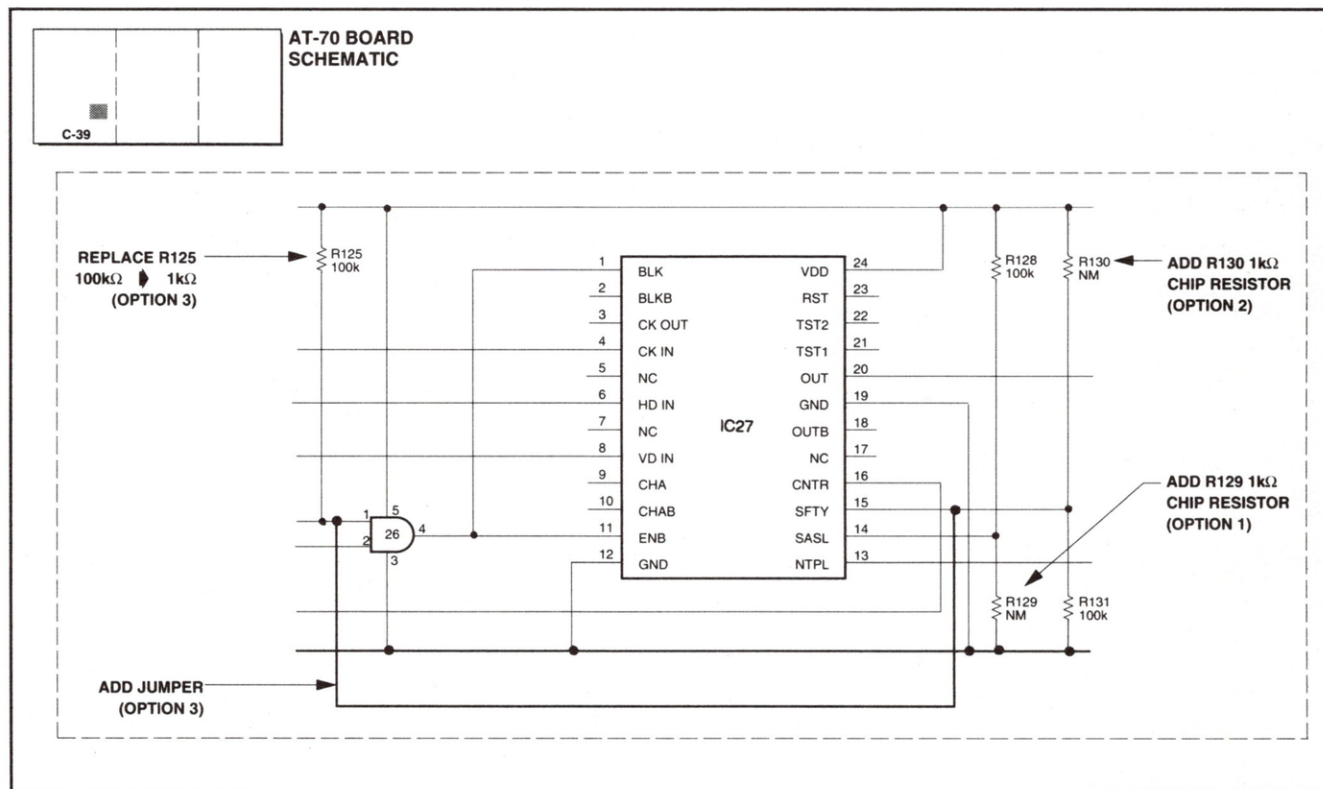
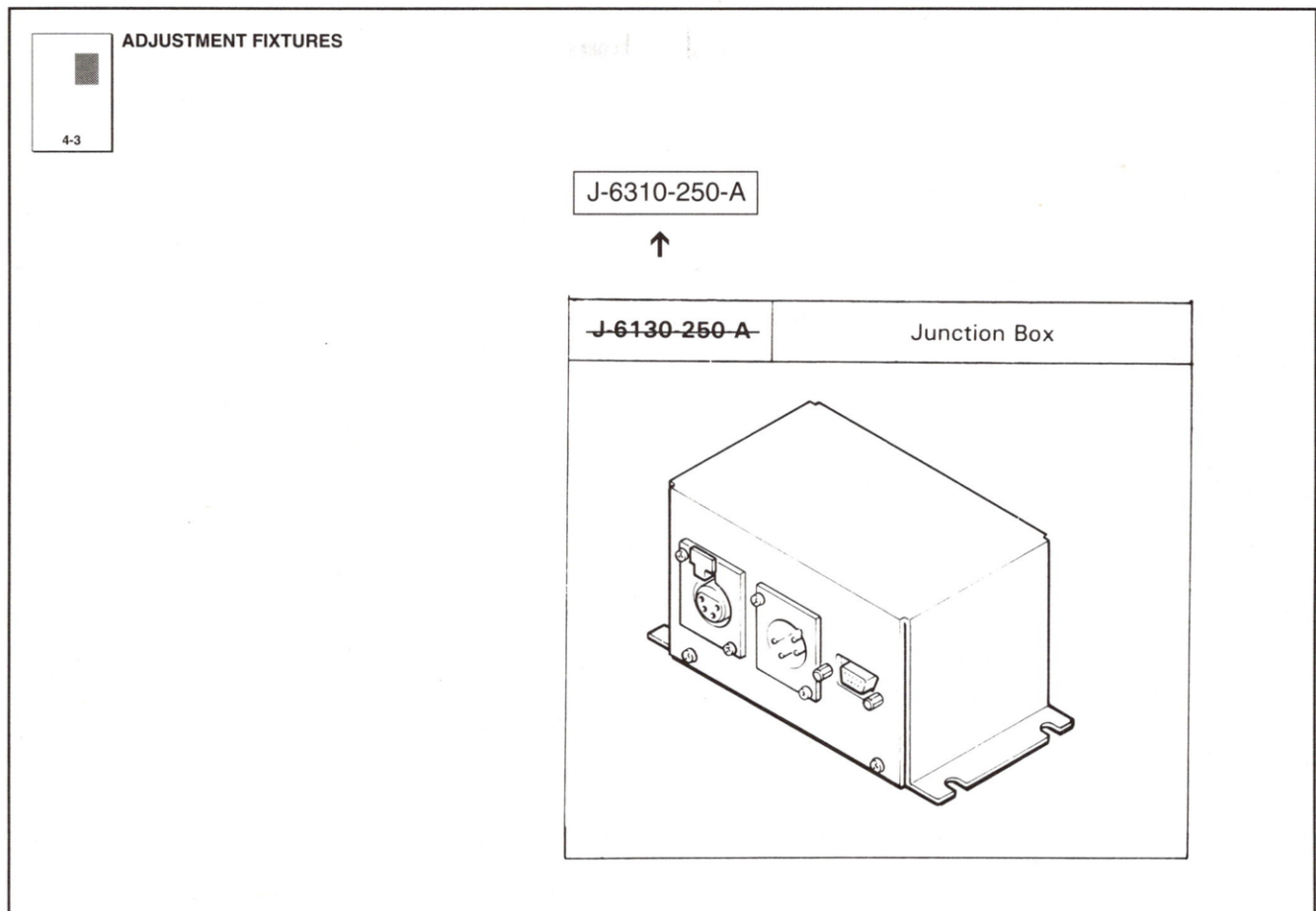


Figure 2

Video ConferencingDate: **November 2, 1992**Subject: **MANUAL CORRECTION—JUNCTION
BOX JIG PART NUMBER**Model: **PCS-C110/120**Serial No: **ALL****DESCRIPTION**

Correct the PCS-C110/120/310/320 Service Manual as shown in Figure 1.

**Figure 1**

Editor

Date: **November 2, 1992**

Subject: **FIRMWARE UPGRADE—VERSION 1.11**

Model: **BVE-900**

Serial No: **10,001 AND HIGHER**

DESCRIPTION

Version 1.11 firmware is now available for BVE-900 units.

NOTE: Firmware for BKE-913 units used in conjunction with this firmware upgrade must be V1.05 or higher.

NEW FEATURES

- **DMC Speed Range**—For use with PVW-2650/BVW-D75, Dynamic Motion Control (DMC) editing within a range of -1x (normal reverse speed) and 3x (triple normal playback speed) is now possible.
- **VTR Constants**—These have been added for the following:

DVR-20/20P	EVO-9850
DVR-2100/2100P	SVO-9600/9620

PROGRAM CORRECTION

- The incorrect display of a "ROM ERROR" message no longer occurs after power is turned on and self-diagnosis is successfully completed.

INSTALLATION PROCEDURE

CAUTION: Programmable devices are easily damaged by static electricity. Make sure the equipment is powered OFF and you are grounded to the unit with a cable that contains a 1MΩ resistor between you and GND when installing programmable devices. Work with caution when grounded to the unit.

1. Turn power off, remove the two screws on the upper panel, then remove the upper panel. (See Figure 1.)
2. Replace EPROMs (IC77–80 and IC92–95) on the PU-31 board. (See Figure 2.)
3. Set DIP switch S3-6 on the PU-31 board to the ON (CLOSED) position. (See Figure 3.)

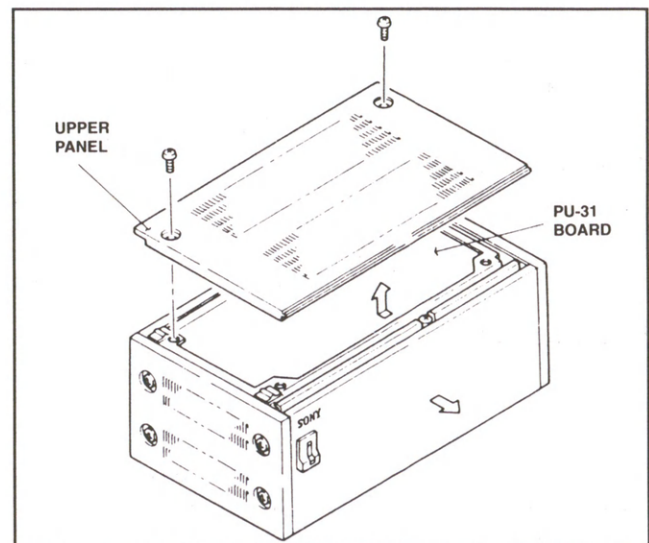


Figure 1

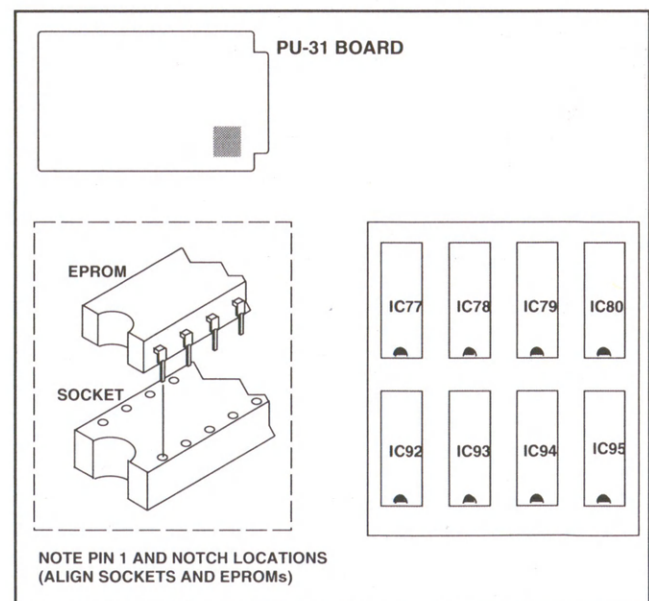


Figure 2

4. Turn power on.
5. Verify "ROM ERROR" is not displayed after the self-diagnosis program has run.
6. Start the INIT interaction by pressing the [INIT] ([0] + [SHIFT] keys on the keyboard; verify "V1.11" is displayed and "ROM ERROR" is not displayed.
7. Press [NO] when the message "KEEP INIT/AUX DATA OK?" is displayed; the message will change to "INITIALIZE INIT/AUX DATA OK?". Initialize the INIT/AUX data by pressing [ENTER].
8. Turn power off.
9. Reset switch 6 of 8-bit DIP switch to OFF (OPEN) position. (Refer to Figure 3.)
10. Reinstall top cover (reverse step 1.)

NOTE: VTR default constants are provided in Table 1.

PARTS REQUIRED

Part No.	Description	Qty.
EDVR20P01	BKE-900 Version 1.11 Firmware Upgrade	1

FIRMWARE ORDERING INFORMATION

To order the new firmware, contact:

Sony Operations and Technical Services
National Broadcast Parts Distribution Center
677 River Oaks Parkway
San Jose, California 95134
(800) 538-7550
FAX: (408) 432-0402

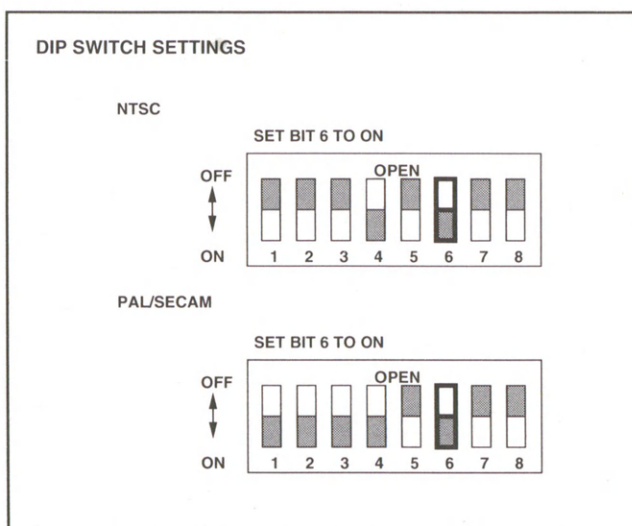


Figure 3

Table 1. BVE-900 VTR Constant Data

GROUP-2, 3 VTR	Device Type No.	BLOCK-1, 3, 5, 7 BYTE						BLOCK-2, 4, 6, 8							NOTE
		3	4	5	6	7	8	1	2	3	4	5	6	7	
BVH-2000PM (02) BVH-2000PM (01)	00 14 00 15	00	96	06	06	03	0B	0A	06	FC	00	83	3D	FF	# #
BVH-2180PM (02) BVH-2180PM (00)	00 1C 00 1D	"						"							# #
HDD-1000	00 E0	00	D2	06	06	03	A8	0A	17	FC	00	80	5A	FF	#
VO-5800 VO-5850	10 00 10 F0	00	96	03	03	04	03	0F	05	FF	00	80	78	05	# BKE-904+IF-500 BKE-905+IF-500
BVU-800PM BVU-820PM	10 00 10 01	00	96	03	03	02	03	0F	07	FF	00	01	78	FF	# #
PVW-2600 PVW-2800	20 40 20 41	00	96	05	05	03	04	0A	08	FB	00	81	19	FF	*1 *1
BVW-D75	20 46	00	96	05	05	03	04	0A	08	FB	00	99	31	FF	#
BVW-D75PS	21 46	00	7D	05	05	03	04	0A	08	FB	00	9B	31	FF	#
DVR-20 DVR-28	40 20 40 22	00	96	07	07	04	8A (0A)	0A	0A	FC	00	81	5B	FF	□ *2

Table 1. BVE-900 VTR Constant Data (Continued)

GROUP-2, 3 VTR	BLOCK-1, 3, 5, 7 Device Type No. BYTE 3 4 5 6 7 8							BLOCK-2, 4, 6, 8 1 2 3 4 5 6 7							NOTE
PCM-3402 (30Fr)	60 02	00	D2	06	06	0A	A0	0A	07	FC	00	80	40	0A	⊙ *
PCM-3402 (25Fr)	61 02	00	AF	06	06	0A	A0	0A	07	FC	00	80	40	0A	⊙ *
PCM-7030 (30Fr) PCM-7050 (30Fr)	70 00 70 01	00	96	05	05	03	80	0A	07	FF	00	00	5C	FF	⊙ * *1 *
PCM-7030 (25Fr) PCM-7050 (25Fr)	71 00 71 01	00	96	05	05	03	80	0A	07	FF	00	00	4C	FF	⊙ * *1 *
EVO-9800	80 08	00	96	08	08	07	94	0A	07	FC	00	00	5A	07	⊙ *
EVO-9800P	81 08	00	7D	08	08	08	8E	0A	07	FC	00	01	5B	07	⊙ *
LVR-5000 LVA-7000	A0 00 A0 10	00	96	03	03	01	81	0A	02	FF	00	00	0A	FF	⊙ * *1 *
LVR-6000 LVA-8000	A1 00 A1 10	00	7D	03	03	01	81	0A	02	FF	00	00	0A	FF	⊙ * *1 *
# SET THE CONSTANTS IN SETUP MODE ⊙ DEFAULT CONSTANT FOR EACH SERIES * CONSTANT DATA SUPPORTED ONLY BY VERSION: *1 SUPPORTED VERSION *2 SUPPORTED VERSION															
BVE-900 V1.09 and later V1.11 and later															
BVE-910 V1.01 and later V2.00 and later V2.10 and later															
BKE-900K V2.01 and later V2.03 and later															

Editor

Date: **November 16, 1992**

Subject: **FIRMWARE UPGRADE—VERSION 1.11**

Model: **BVE-900**

Serial No: **10,001 AND HIGHER**

DESCRIPTION

Version 1.11 firmware is now available for BVE-900 units.

NOTE: Firmware for BKE-913 units used in conjunction with this firmware upgrade must be V1.05 or higher.

NEW FEATURES

- **DMC Speed Range**—For use with PVW-2650/BVW-D75, Dynamic Motion Control (DMC) editing within a range of -1x (normal reverse speed) and 3x (triple normal playback speed) is now possible.
- **VTR Constants**—These have been added for the following:

DVR-20/20P	EVO-9850
DVR-2100/2100P	SVO-9600/9620

PROGRAM CORRECTION

- The incorrect display of a "ROM ERROR" message no longer occurs after power is turned on and self-diagnosis is successfully completed.

INSTALLATION PROCEDURE

CAUTION: Programmable devices are easily damaged by static electricity. Make sure the equipment is powered OFF and you are grounded to the unit with a cable that contains a 1MΩ resistor between you and GND when installing programmable devices. Work with caution when grounded to the unit.

1. Turn power off, remove the two screws on the upper panel, then remove the upper panel. (See Figure 1.)
2. Replace EPROMs (IC77–80 and IC92–95) on the PU-31 board. (See Figure 2.)
3. Set DIP switch S3-6 on the PU-31 board to the ON (CLOSED) position. (See Figure 3.)

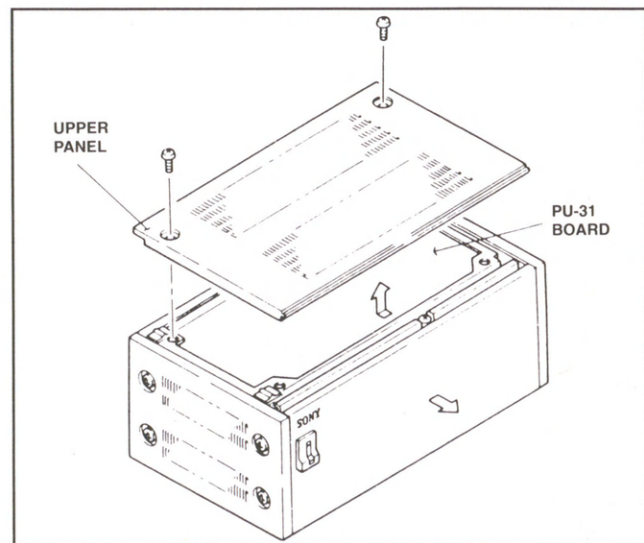


Figure 1

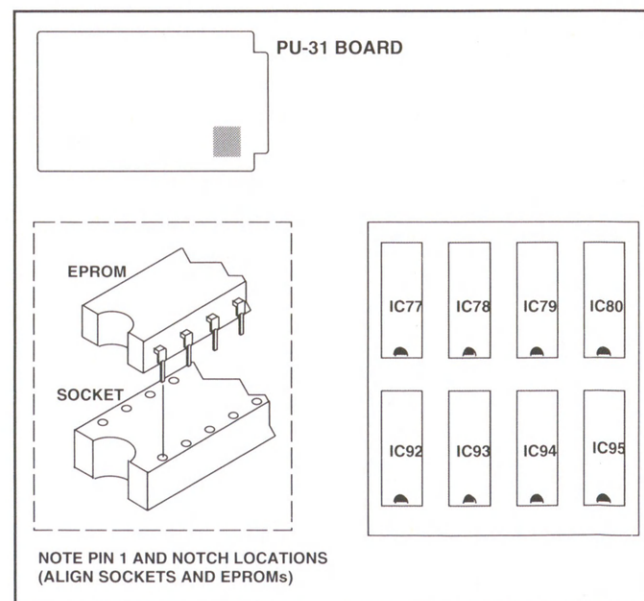


Figure 2

4. Turn power on.
5. Verify "ROM ERROR" is not displayed after the self-diagnosis program has run.
6. Start the INIT interaction by pressing the [INIT] ([0] + [SHIFT] keys on the keyboard; verify "V1.11" is displayed and "ROM ERROR" is not displayed.
7. Press [NO] when the message "KEEP INIT/AUX DATA OK?" is displayed; the message will change to "INITIALIZE INIT/AUX DATA OK?". Initialize the INIT/AUX data by pressing [ENTER].
8. Turn power off.
9. Reset switch 6 of 8-bit DIP switch to OFF (OPEN) position. (Refer to Figure 3.)
10. Reinstall top cover (reverse step 1.)

NOTE: VTR default constants are provided in Table 1.

PARTS REQUIRED

Part No.	Description	Qty.
EE 900/08	BKE-900 Version 1.11 Firmware Upgrade	1



FIRMWARE ORDERING INFORMATION

To order the new firmware, contact:

Sony Operations and Technical Services
National Broadcast Parts Distribution Center
677 River Oaks Parkway
San Jose, California 95134
(800) 538-7550
FAX: (408) 432-0402

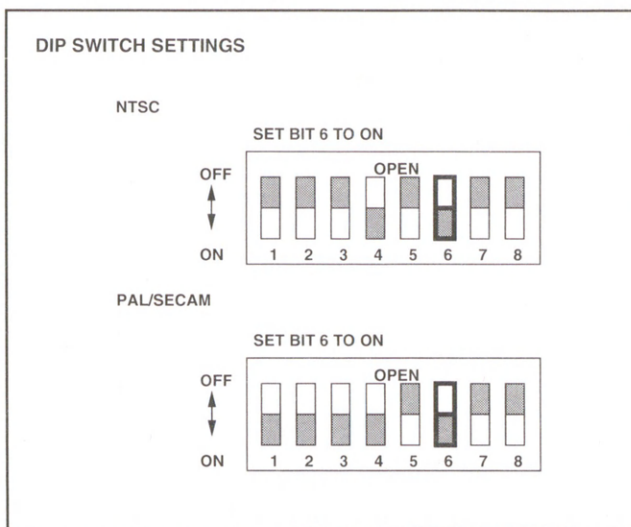


Figure 3

Table 1. BVE-900 VTR Constant Data

GROUP-2, 3 VTR	Device Type No.	BLOCK-1, 3, 5, 7 BYTE						BLOCK-2, 4, 6, 8							NOTE
		3	4	5	6	7	8	1	2	3	4	5	6	7	
BVH-2000PM (02) BVH-2000PM (01)	00 14 00 15	00	96	06	06	03	0B	0A	06	FC	00	83	3D	FF	# #
BVH-2180PM (02) BVH-2180PM (00)	00 1C 00 1D	"						"							# #
HDD-1000	00 E0	00	D2	06	06	03	A8	0A	17	FC	00	80	5A	FF	#
VO-5800 VO-5850	10 00 10 F0	00	96	03	03	04	03	0F	05	FF	00	80	78	05	# BKE-904+IF-500 BKE-905+IF-500
BVU-800PM BVU-820PM	10 00 10 01	00	96	03	03	02	03	0F	07	FF	00	01	78	FF	# #
PVW-2600 PVW-2800	20 40 20 41	00	96	05	05	03	04	0A	08	FB	00	81	19	FF	*1 *1
BVW-D75	20 46	00	96	05	05	03	04	0A	08	FB	00	99	31	FF	#
BVW-D75PS	21 46	00	7D	05	05	03	04	0A	08	FB	00	9B	31	FF	#
DVR-20 DVR-28	40 20 40 22	00	96	07	07	04	8A (0A)	0A	0A	FC	00	81	5B	FF	⊙ *2

Table 1. BVE-900 VTR Constant Data (Continued)

GROUP-2, 3 VTR	BLOCK-1, 3, 5, 7 Device Type No. BYTE 3 4 5 6 7 8							BLOCK-2, 4, 6, 8 1 2 3 4 5 6 7							NOTE
PCM-3402 (30Fr)	60 02	00	D2	06	06	0A	A0	0A	07	FC	00	80	40	0A	⊙ *
PCM-3402 (25Fr)	61 02	00	AF	06	06	0A	A0	0A	07	FC	00	80	40	0A	⊙ *
PCM-7030 (30Fr) PCM-7050 (30Fr)	70 00 70 01	00	96	05	05	03	80	0A	07	FF	00	00	5C	FF	⊙ * *1 *
PCM-7030 (25Fr) PCM-7050 (25Fr)	71 00 71 01	00	96	05	05	03	80	0A	07	FF	00	00	4C	FF	⊙ * *1 *
EVO-9800	80 08	00	96	08	08	07	94	0A	07	FC	00	00	5A	07	⊙ *
EVO-9800P	81 08	00	7D	08	08	08	8E	0A	07	FC	00	01	5B	07	⊙ *
LVR-5000 LVA-7000	A0 00 A0 10	00	96	03	03	01	81	0A	02	FF	00	00	0A	FF	⊙ * *1 *
LVR-6000 LVA-8000	A1 00 A1 10	00	7D	03	03	01	81	0A	02	FF	00	00	0A	FF	⊙ * *1 *
# SET THE CONSTANTS IN SETUP MODE ⊙ DEFAULT CONSTANT FOR EACH SERIES * CONSTANT DATA SUPPORTED ONLY BY VERSION: *1 SUPPORTED VERSION *2 SUPPORTED VERSION															
				BVE-900 V1.09 and later V1.11 and later				BVE-910 V1.01 and later V2.00 and later V2.10 and later				BKE-900K V2.01 and later V2.03 and later			

VTR

Date: **November 2, 1992**

Subject: **TIGHTENING WIRES USED FOR
HOLDING SCREEN**

Model: **RVP-400Q**

Serial No: **5,000,001-5,000,200**

DESCRIPTION

The wires holding the screen in place may become loose and touch the fan or obstruct the light and cast a shadow on the screen. To prevent such occurrences, perform the following modification procedure.

NOTE: Units with serial numbers 5,000,201 and higher have been factory modified.

MODIFICATION PROCEDURE

See Figures 1 through 3.

1. Remove rear cover as described in RVP-400Q Service Manual, section 2-1.
2. Unlock lever, then pull handle in arrow (a) direction. This will push screen forward, exposing two plates connected to two pipes.

3. While pushing part (x) on both right and left plates, pull plates and screen block assembly in arrow (b) direction as shown in Figure 1, Detail (B), to remove screen.
4. Pull loosened wires in arrow direction as shown in Figure 2.
5. Without removing projection block assembly, fasten wire on each side to bottom side of chassis, using binding band, as shown in Figure 3.

NOTE: Trim excess binding band.

6. Perform steps 1 through 4 in reverse order, to assemble screen block assembly and rear cover.

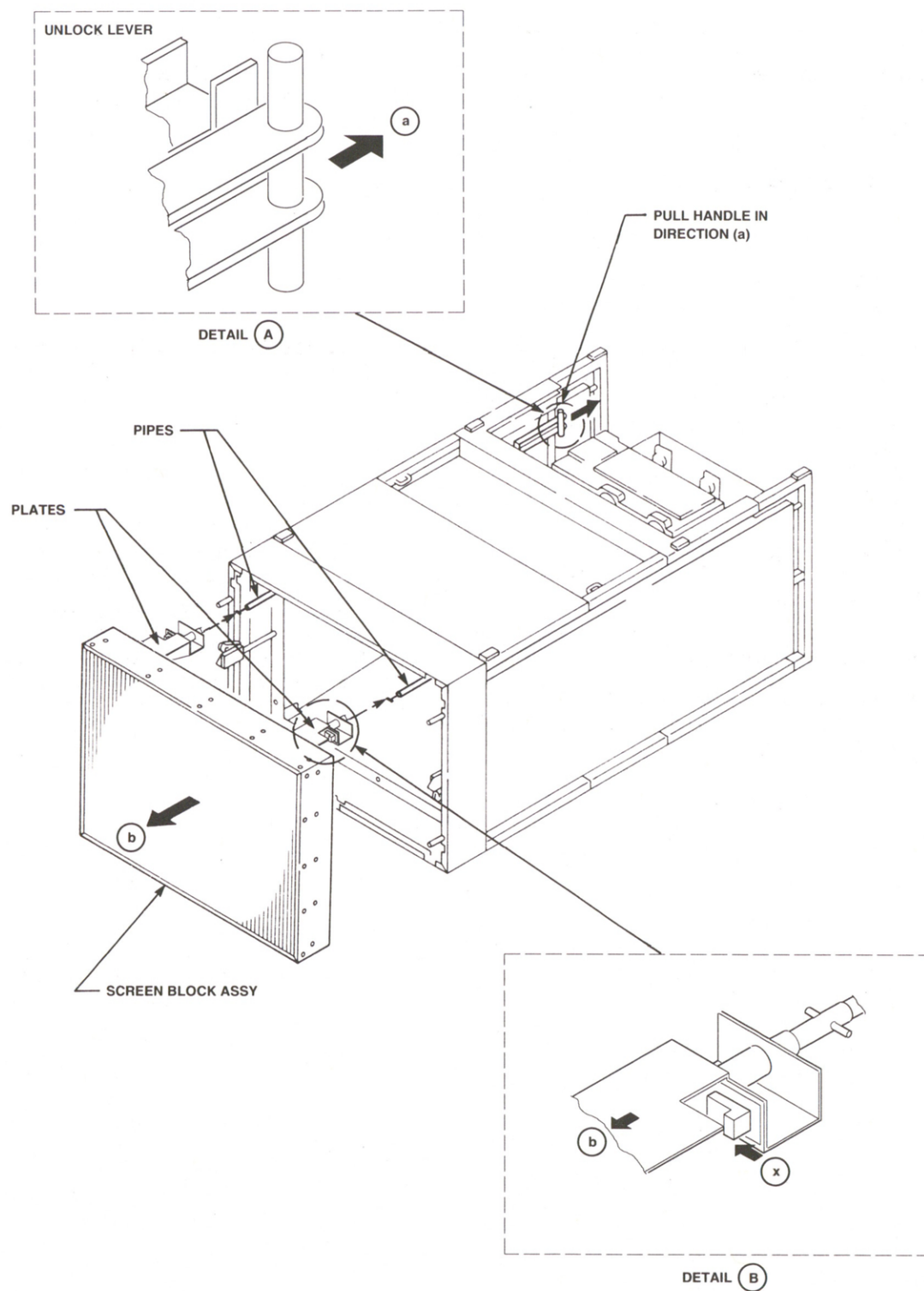


Figure 1

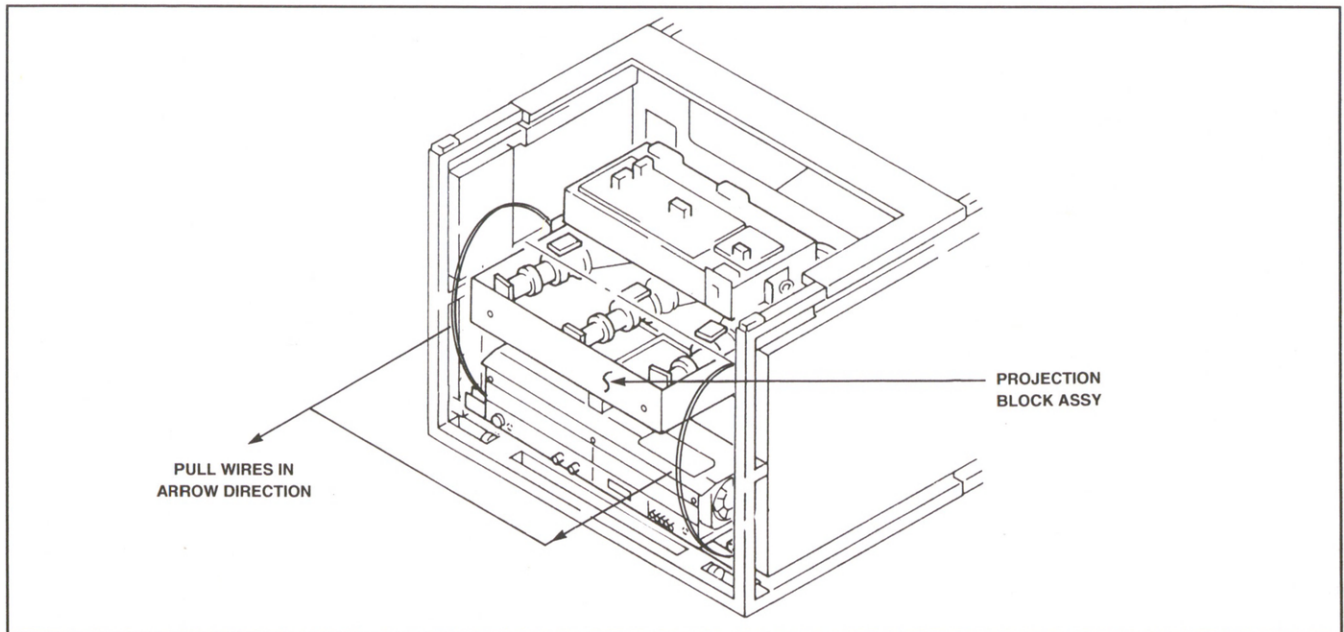


Figure 2

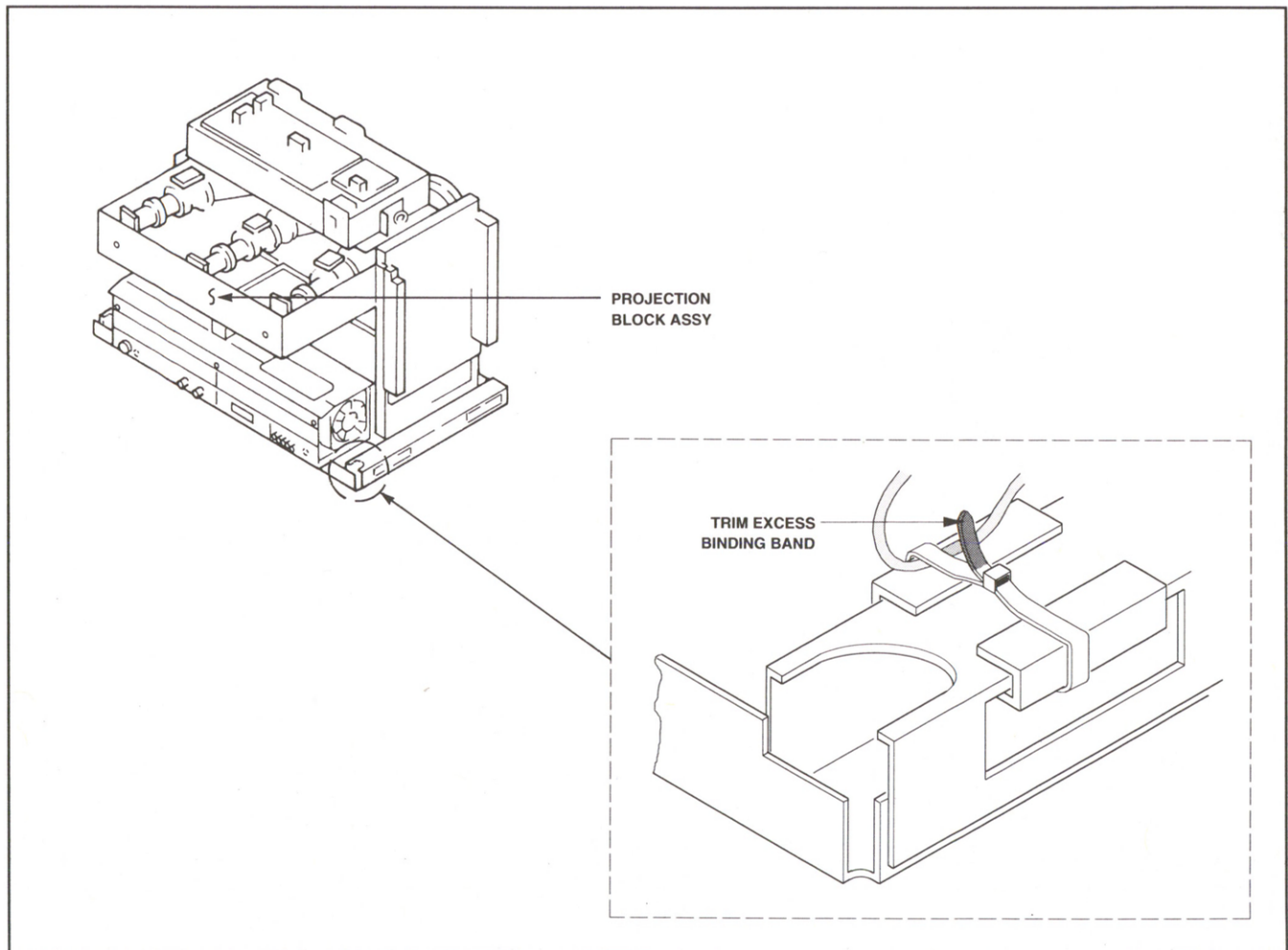


Figure 3

Videodisc

Date: **November 16, 1992**

Subject: **LATCHED-UP AT POWER ON**

Model: **LVS-5000/5000A**

Serial No: **100,150 AND LOWER (LVS-5000)**
100,315 AND LOWER (LVS-5000A)

DESCRIPTION

Initial powering on of either the LVR or LVS units may sometimes result in a latched-up, inoperative condition.

To correct this, remove the VC-57 board and install the VC-105 board kit as described below.

PARTS REQUIRED

Part No.	Description	Qty.
A-6400-403-A	VC-105 Kit	1

MODIFICATION PROCEDURE

(See Figure 1.)

1. Disconnect connectors CN001 through CN004 on the VC-57 board.
2. Remove PC board holders (A) and PC support (B) from the right side panel, and remove the VC-57 board.

3. Disconnect 40-pin cable from CN111 on the MB-16 board.
4. Install the four PC supports (provided) to the VC-105 board, and attach the VC adapter board to the VC-105 board.
5. Install the VC-105 board and adapter assembly to the inside right side panel using the holders and PC support removed in step 2.
6. Install 40-pin cable disconnected from the MB-16 board in step 3 to CN005 on the VC-105 board.
7. Re-install connectors CN001 through CN004 removed in step 1 to the VC-105 board.
8. Install cable W001 from the VC-105 board to CN111 on the MB-16 board.

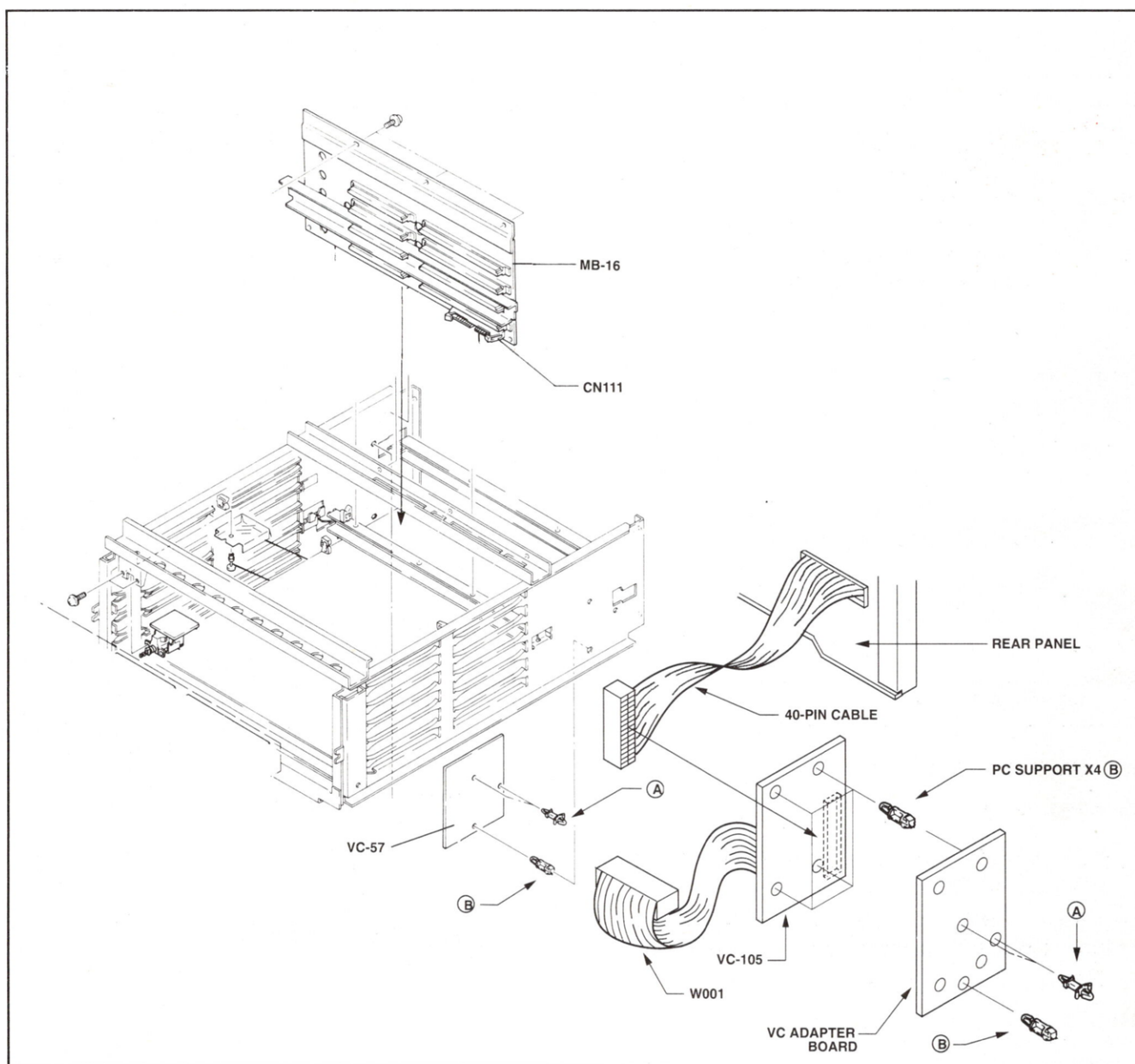


Figure 1

Display

Date: **November 16, 1992**

Subject: **BRIGHTNESS ADJUSTMENT CHANGE**

Model: **JTU-50A1**

Serial No: **11,000 AND HIGHER**

DESCRIPTION

In order to increase the adjustment range of each individual Trinitile cell, the brightness adjustment procedure has been revised. Correct the JTU-50A1 Service Manual (9-976-641-01) as shown in Figure 1.



104

**BRIGHTNESS ADJUSTMENT
FOR TRINITILES**

1. Measure the brightness of the Trinitiles that are not to be adjusted to know the average brightness of the unit.
(Refer P102-2-2-1, Measuring brightness using illuminometer JTO-2VLM.)
2. Adjust the RV for the Trinitile to be adjusted (RV1-RV16, BRIGHT ADJ) to match the brightness value of the "1".
(Position of the Trinitile and RV are related.)

↓

1. Measure the brightness of the Trinitiles that are not to be adjusted to know the average brightness of the unit.
(Refer to page 102, Section 2-1, Measuring brightness using illuminometer JTO-2VLM.)
2. Adjust RV33 on the H board to its maximum setting.
3. Adjust RV1 through RV16 so that all cells in the unit are of the same brightness.
4. Adjust RV33 as necessary until the unit under adjustment is of the same brightness as the other JTU-50A1 units mounted in the screen.

Figure 1

Videodisc

Date: **November 16, 1992**

Subject: **DISC UNLOADING ERROR**

Model: **LVR-3000N**

Serial No: **10,001-10,120**

DESCRIPTION

The disc may unload randomly. To prevent this, replace IC608 (V2.0) on the SS-140 board (zone F9).

CAUTION: Programmable devices are easily damaged by static electricity. Make sure the equipment is powered OFF and you are grounded to the unit with a cable that contains a 1MΩ resistor between you and GND when installing programmable devices. Work with caution when grounded to the unit.

PARTS REQUIRED

Part No.	Description	Qty.
8-759-164-07	IC 27256R30SSIC608V2.11	1

VTR

Date: **November 30, 1992**

Subject: **ROM VERSION UPGRADE—V1.01 AND V1.06**

Model: **EVW-300**

Serial No: **10,001 AND HIGHER (V1.01)**
10,001–10,380 (V1.06)

DESCRIPTION

Version 1.01 and 1.06 firmware are now available. V1.06 offers the following improvements:

- adaptation for both NTSC and PAL models;
- enhanced REGEN;
- function of TCG preset in R-RUN mode (instead of 0 preset in preset mode), even when TC operation is as follows:

Data setting/Rec/Rec P/Searching for blank in search mode/Rec (Rec from blank portion).

To install the new versions, replace IC200 (V1.01) and IC100 (V1.06) on the SS-50 board.

PARTS REQUIRED

Part No.	Description	Qty.
8-752-840-17	V1.01 CXP80116-863Q (IC200/SS-50)	1
8-759-098-85	V1.06 μPD-75516GF-396-3 B9 (IC100/SS-50)	1



Videodisc

Date: **November 30, 1992**

Subject: **IMPROVEMENT IN JOG MODE**

Model: **LVR-3000N**

Serial No: **10,001-10,350**

DESCRIPTION

While operating in JOG mode, the machine may occasionally switch to another mode. To correct this condition, replace IC608 on the SS-140 board with a new IC.

PARTS REQUIRED

Part No.	Description	Qty.
8-759-164-07	27256R30SSIC608V2.11 (IC608)	1

CONFIRMATION

1. On the remote control unit, press any mode button (PLAY, STILL, etc.) except SCAN.
2. Press SCAN.
3. Stabilize machine in SCAN mode by adjusting jog/shuttle dial.
4. Press any button on the remote control unit or front panel except PLAY/STILL/FAST/CLEAR/SEARCH or REPEAT buttons. The machine should remain in SCAN mode.

Sony Corporation of America
Business and Professional Group
Technical Publications
677 River Oaks Pkwy, San Jose, California 95134

Camera

Date: **November 30, 1992**

Subject: **LOSS OF PICTURE SYNC ON RGB
MONITOR**

Model: **DXC-930**

Serial No: **10,301-10,318**

DESCRIPTION

When an RGB monitor is used, loss of synchronization may occur due to improper setting of SW7 (SYNC/SG1) on the CN-579 board. Please confirm that SW7 is set to the SYNC position. (See Figure 1.)

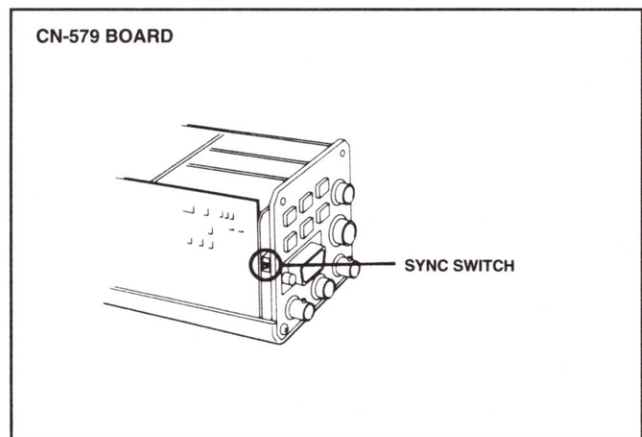


Figure 1

Videodisc

Date: **November 30, 1992**

Model: **LVR-3000N**

Serial No: **10,001-10,400**

Subject: **IMPROVEMENT IN DROPOUT
 DETECTION CAPABILITY**

DESCRIPTION

Under high-temperature conditions, dropout noise may occur as a result of diminished dropout detection capability. To correct this condition, perform the following modification procedure.

PARTS REQUIRED

Part No.	Description	Qty.
1-131-349-00	Cap, Tantalum, 2.2 μ F, 35V (C709)	2

MODIFICATION PROCEDURE

DM-41 Board, Component Side

1. Replace C709 with two new 2.2 μ F tantalum capacitors.
2. Solder leads of new capacitors as shown in Figure 1.
3. Perform the DOC RF level adjustment.

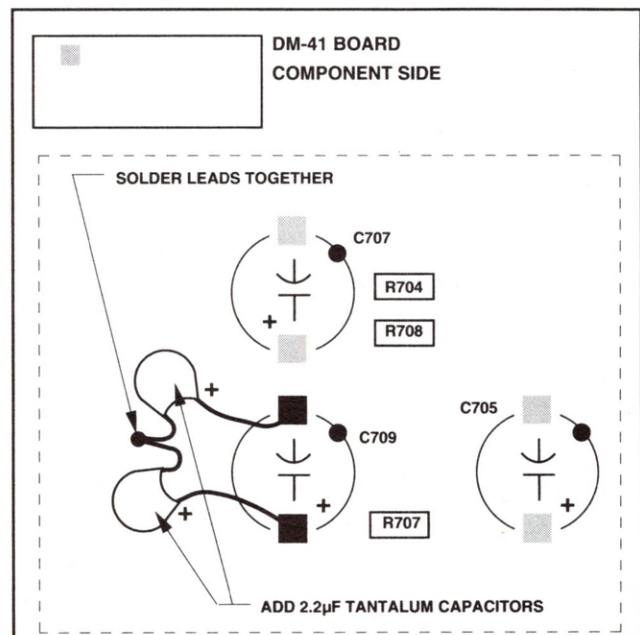


Figure 1

VTR

Date: **November 30, 1992**

Subject: **FIRMWARE UPGRADE—VERSION 1.06/
2.01**

Model: **BVE-600**

Serial No: **SEE TEXT**

DESCRIPTION

V1.06/2.01 firmware is now available. To install the new version, see the following installation procedure.

PROGRAM IMPROVEMENTS

- Synchronization can now be achieved when DMC SPEED is set from -1% to -100%, and TC JUMP (Time Code Jump) = ALLOWED is selected.
- Effects can now be performed at the IN point of a PREVIEW or RECORD when the EFFECT TYPE = MAN WIPE (or MAN DISSOLVE) and a built-in VIDEO SWITCHER (BKE-611/612 or 621/622) is used.
- When a VSP-A600 equipped with CUE TONE GENERATOR (VSBK-601 board) is used, BEGIN CUE is output at the IN point of a PREVIEW or RECORD when EFFECT TYPE = MAN WIPE (or MAN DISSOLVE).
- DMC speed range from -1 to +3 times normal speed is now available for use with BVW-D75 and PVW-2650 models.
- Control constants for new VTRs such as PVW, PCM, and LVR have been programmed into ROM, and are provided in Table 2. When connecting VTRs marked "#", set the constants manually using the device constant setting mode. Devices marked with "*" are newly supported in this version.

INSTALLATION PROCEDURE

Two separate upgrade kits are available. Select the appropriate kit by confirming the serial number of the BVE-600 to which the kit is to be installed.

PARTS REQUIRED

Part No.	Description	Qty.
EE600A04	Version 1.06 Firmware Upgrade S/N 10,001-10,597 (SY-113 Board, 1-627-386-1X)	1
EE600B04	Version 2.01 Firmware Upgrade S/N 20,001-20,397 (SY-113 Board, 1-627-386-2X)	1

CAUTION: EPROMs are easily damaged by static electricity. Make sure the equipment is powered OFF and you are grounded to the unit with a cable that contains a 1MΩ resistor between you and GND when installing EPROMs. Work with caution when grounded to the unit.

1. Turn power OFF, and remove four screws on each side of the BVE-600.
2. Remove two side covers and top cover from unit.
3. From bottom front of unit, remove three screws affixing pad to unit. Remove pad.
4. Remove one screw from each side and swing open the DP subpanel.
5. Remove one screw from each side and swing open the key panel assembly.
6. Remove the former version EPROMs (IC99, IC90, IC100, IC91) located to the front of the unit on the SY-113 board (see Figure 1).

7. Install the new version EPROMs (see Figures 1 and 2) according to Table 1.

Table 1

IC Location	Kit EE600A04	Kit EE600B04
IC99.	E600M0 V1.06	E600M0 V2.01
IC90	E600M1 V1.06	E600M1 V2.01
IC100	E600M2 V1.06	E600M2 V2.01
IC91	E600M3 V1.06	E600M3 V2.01

8. Close key panel assembly and DP subpanel and reinstall holding screws.
9. Install left side cover, right side cover, and top cover, and reinstall the four screws on each side.
10. Attach pad and reinstall the three holding screws.
11. On rear of the BVE-600, set switch number 8 on 8-bit DIP switch S502 to ON (down position).

NOTE: This setting initializes setup data and init/aux data to factory defaults when power is turned on.

12. Turn on BVE-600 power. Confirm that display area for P1 indicates version number for approximately three seconds after self-diagnostics are run.

E600-106 for kit EE600A04 or

E600-201 for kit EE600B04

13. Return switch number 8 of S502 to OFF (upper position), and reset any setup data and init/aux data to user preference.

FIRMWARE ORDERING INFORMATION

To order the new firmware, contact:

Sony Operations and Technical Services
National Broadcast Parts Distribution Center
677 River Oaks Parkway
San Jose, California 95134
(800) 538-7550
FAX: (408) 432-0402

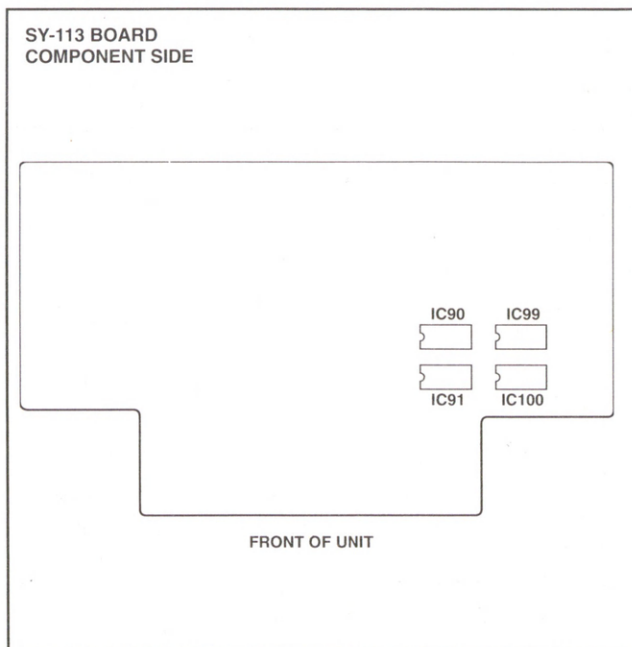


Figure 1

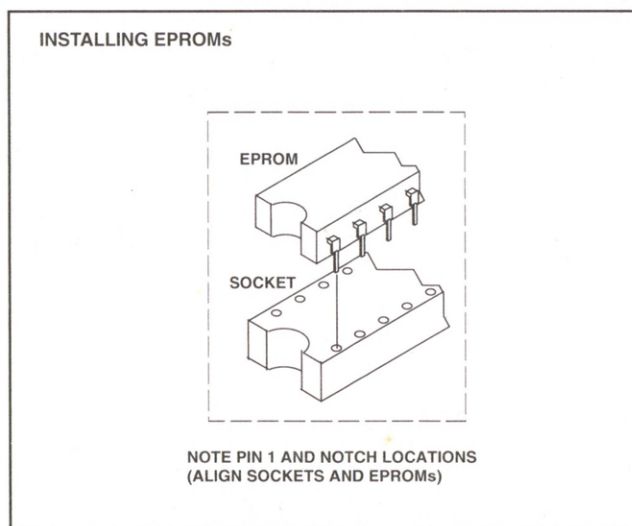


Figure 2

Table 2: BVE-600 VTR Constant Data

GROUP-2, 3 VTR	Device Type No.	BLOCK-1 BYTE						BLOCK-2							NOTE
		3	4	5	6	7	8	1	2	3	4	5	6	7	
BVH-2000PM (02) BVH-2000PM (00)	00 14 00 15	00	5A	06	06	03	0B	0A	06	FC	00	83	3D	FF	# #
BVH-2180PM (02) BVH-2180PM (00)	00 1C 00 1D			"							"				# #
HDD-1000	00 E0	00	5A	06	06	03	A8	0A	17	FC	00	80	5A	FF	#
VO-5800 VO-5850	10 00 10 F0	00	5A	03	03	04	03	0F	05	FF	00	80	78	05	#
BVU-800PM BVU-820PM	10 00 10 01	00	5A	03	03	02	03	0F	07	FF	00	01	78	FF	# #
VO-5800P VO-5850P	11 00 11 F0	00	4B	03	03	04	03	0F	05	FF	00	81	64	05	#
PVW-2600 PVW-2800	20 40 20 41	00	5A	05	05	03	04	0A	08	FB	00	81	19	FF	* ☆ *
BVW-D75PS	21 46	00	4B	05	05	03	04	0A	08	FB	00	9B	31	FF	#
PVW-2600P PVW-2800P	21 40 21 41	00	4B	05	05	03	04	0A	08	FB	00	83	31	FF	* ☆ *
DVR-20 DVR-28	40 20 40 22	00	5A	07	07	04	8A	0A	07	FC	00	81	5B	FF	☆ * *
DVR-20P DVR-20P	41 20 41 22	00	4B	07	07	04	8A	0A	07	FC	00	83	5B	FF	☆ * *
PCM-3402 (30Fr)	60 02	00	5A	06	06	0A	A0	0A	07	FC	00	80	40	0A	#
PCM-3402 (25Fr)	61 02	00	4B	06	06	0A	A0	0A	07	FC	00	80	40	0A	#
PCM-7030 (30Fr) PCM-7050 (30Fr)	70 00 70 01	00	5A	05	05	03	80	0A	07	FF	00	00	5C	FF	☆ * *
PCM-7030 (25Fr) PCM-7050 (25Fr)	71 00 71 01	00	4B	05	05	03	80	0A	07	FF	00	00	4C	FF	☆ * *
LVR-5000 LVA-7000	A0 00 A0 10	00	5A	03	03	01	81	0A	02	FF	00	00	0A	FF	☆ * *
LVR-6000 LVA-8000	A1 00 A1 10	00	4B	03	03	01	81	0A	02	FF	00	00	0A	FF	☆ * *
# Set constants in SETUP mode. ☆ Default constant for each series. * Constant data supported only by version V1.06-V2.01 (BVE-600).															

Camera

Date: **December 14, 1992**

Subject: **MANUAL CORRECTIONS**

Model: **DXF-501**

Serial No: **ALL**

DESCRIPTION

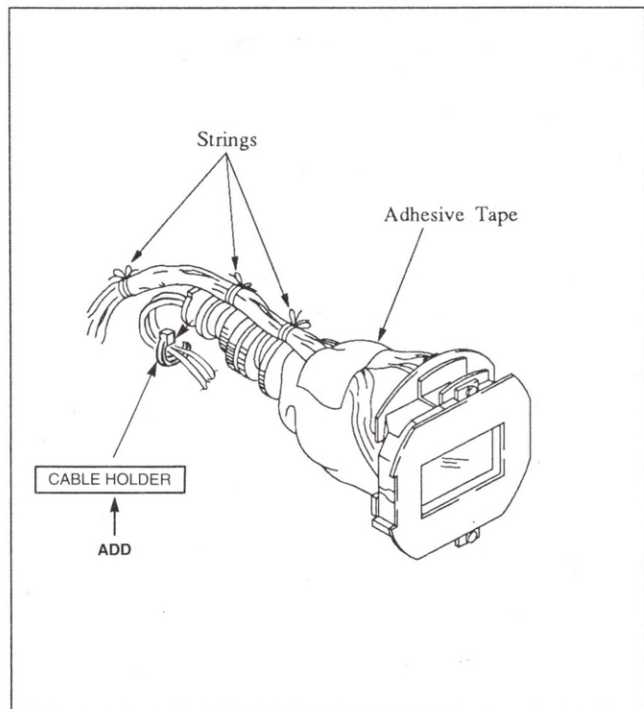
Correct page 2-3 of the DXF-501 Service Manual as shown.

NOTE: The DXF-501 Service Manual is contained within the DXC-327 and DXC-537 Volume 1 Service Manuals.

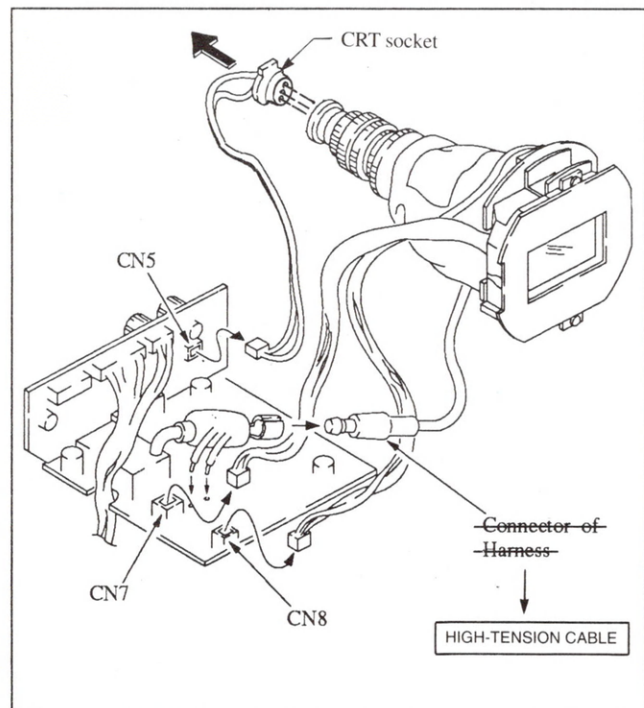


3. Untie three strings and remove adhesive tape and cable holder.

3. Untie three strings and remove an adhesive tape.



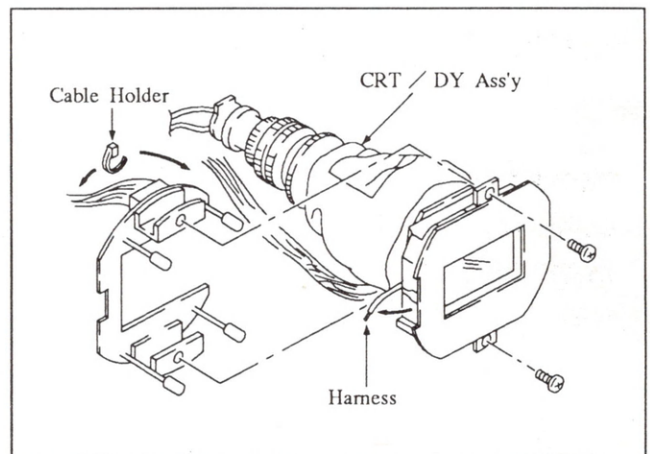
4. Disconnect a connector CN5 on the SW board and disconnect two connectors CN7 and CN8 on the MAIN board. Unsolder two wires and disconnect the connector of harness as illustrated.



5. Unsolder the harness shown in Figure.

Remove two screws and remove the LED board from the CRT/DY ASSY.

Note: When removing the LED board, be careful not to damage four LEDs (light-emitting diodes) on the LED board.

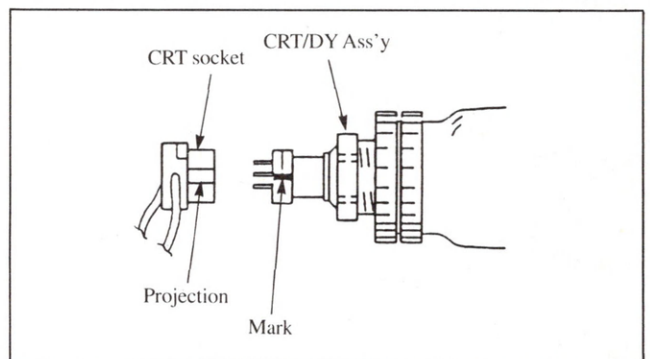


6. When installing a new CRT/DY ASSY, reverse the procedures above.

4. Disconnect connectors CN7 and CN8 and the high-tension cable from the Main board. Disconnect the CRT socket from the CRT/DY assembly.

NOTE: When disconnecting the CRT socket, pull it out carefully so as not to bend the CRT/DY assembly pins.

NOTE: When reconnecting the CRT socket, ensure that the projection on the socket and the mark on the CRT/DY assembly are properly aligned.



VTR

Date: **December 14, 1992**

Subject: **HORIZONTAL PICTURE TEAR**

Model: **EVO-9100, EVW-300**

Serial No: **ALL**

DESCRIPTION

A horizontal picture tear may occur during playback in units containing a U or U' mechanism, as shown in Figure 1. To correct this condition, perform the following modification procedure.

PARTS REQUIRED

Part No.	Description	Qty.
A-7040-351-A	U, U' Mechanism TG Roller Kit*	1

* Kit includes one TG2 roller and one TG3 guide roller assembly.

MODIFICATION PROCEDURE

(See Figures 2 through 4.)

CAUTION: Do not use oil or grease in this procedure.

1. Replace TG2 roller and adjust height as described in EVO-9100 Service Manual, section 3-9 (page 219), or EVW-300 Service Manual, Volume 1, 1st Edition, section 3-9.

NOTE: A TG2 height adjustment tool (J-6082-243-A), shown in Figure 3, is available for easy and accurate height adjustment.

2. Replace TG3 guide roller assembly as shown in Figure 4.
3. Perform tape path adjustment as described in EVO-9100 Service Manual, section 4 (page 233), or EVW-300 Service Manual, Volume 1, 1st Edition, section 5.

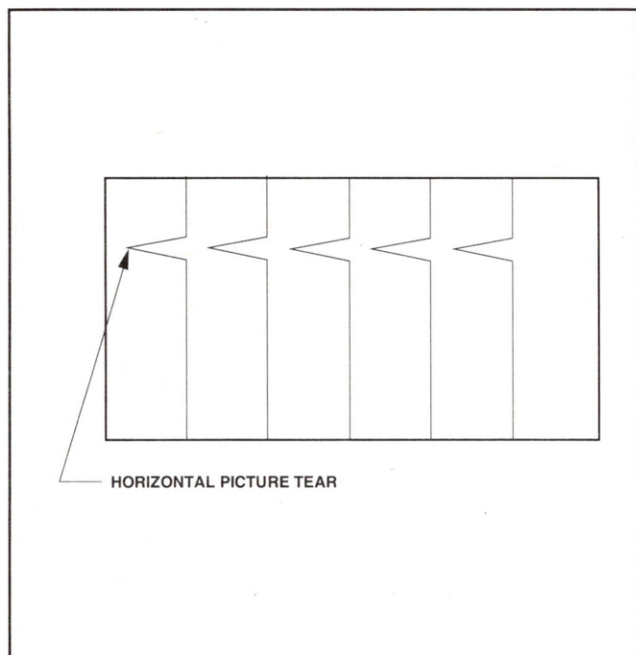


Figure 1

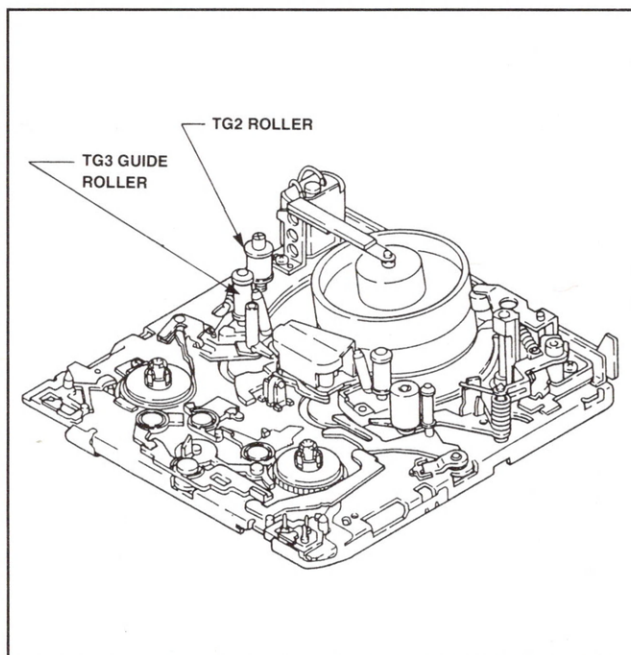


Figure 2

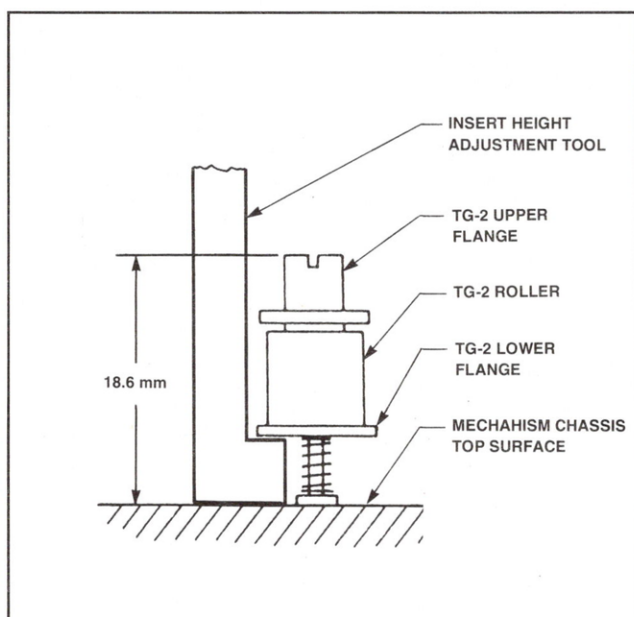


Figure 3

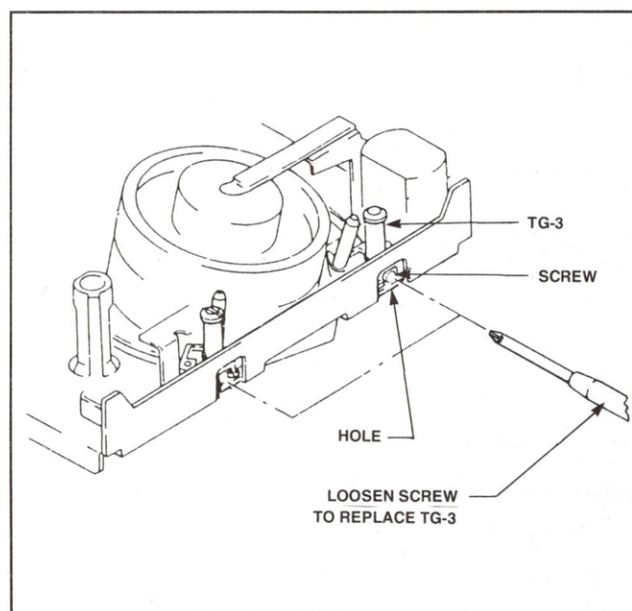


Figure 4

VTR

Date: **December 14, 1992**

Model: **EVO-9850**

Serial No: **10,071—10,358**

Subject: **REMOVING JITTER AND PICTURE SPLIT
AFTER DRUM REPLACEMENT**

DESCRIPTION

Jitter and picture split may occur after the drum is replaced, due to two unnecessary capacitors that are mounted on the drum driver circuit. To correct this condition, remove chip capacitors C823 and C844 from the SST-2 board (solder side; zone G-7) as shown in Figures 1 and 2.

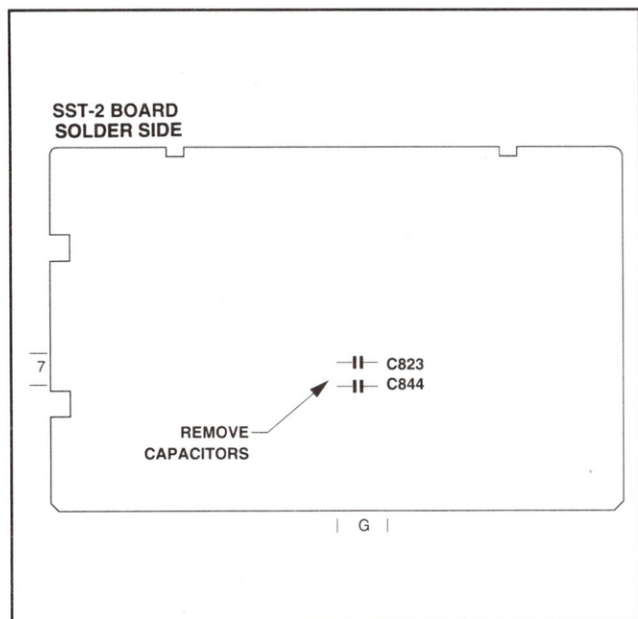


Figure 1

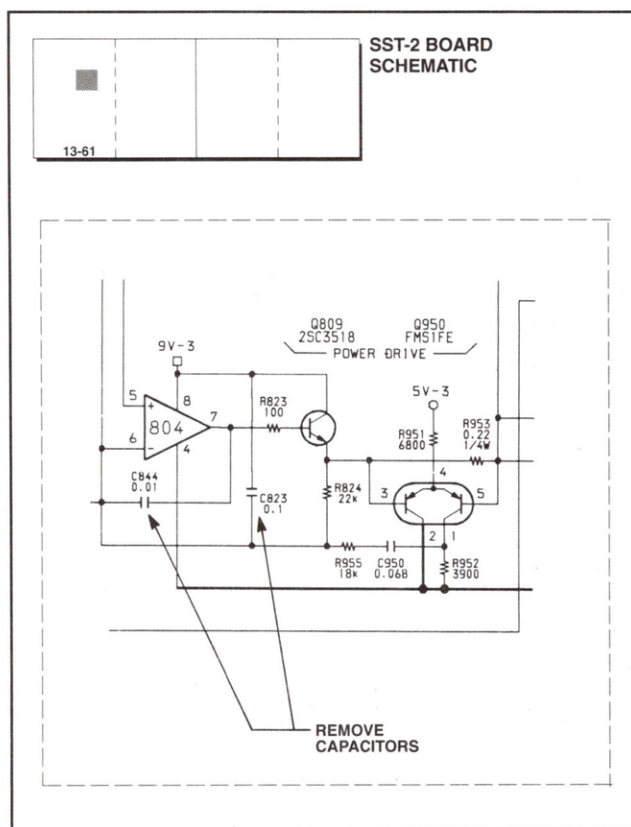


Figure 2

Videodisc

Date: **December 14, 1992**

Subject: **NO RS-232C COMMUNICATION**

Model: **MDP-1100**

Serial No: **ALL**

DESCRIPTION

The unit may sometimes fail to operate when connected to a Macintosh® computer via the RS-232C port.

To correct this, perform the following modification procedure.

MODIFICATION PROCEDURE

IF-44 Board

(See Figures 1 and 2.)

1. Cut solder side trace leading from pin 28 of IC1.
2. Add solder bridge between pin 12 of IC6 and ground plane.

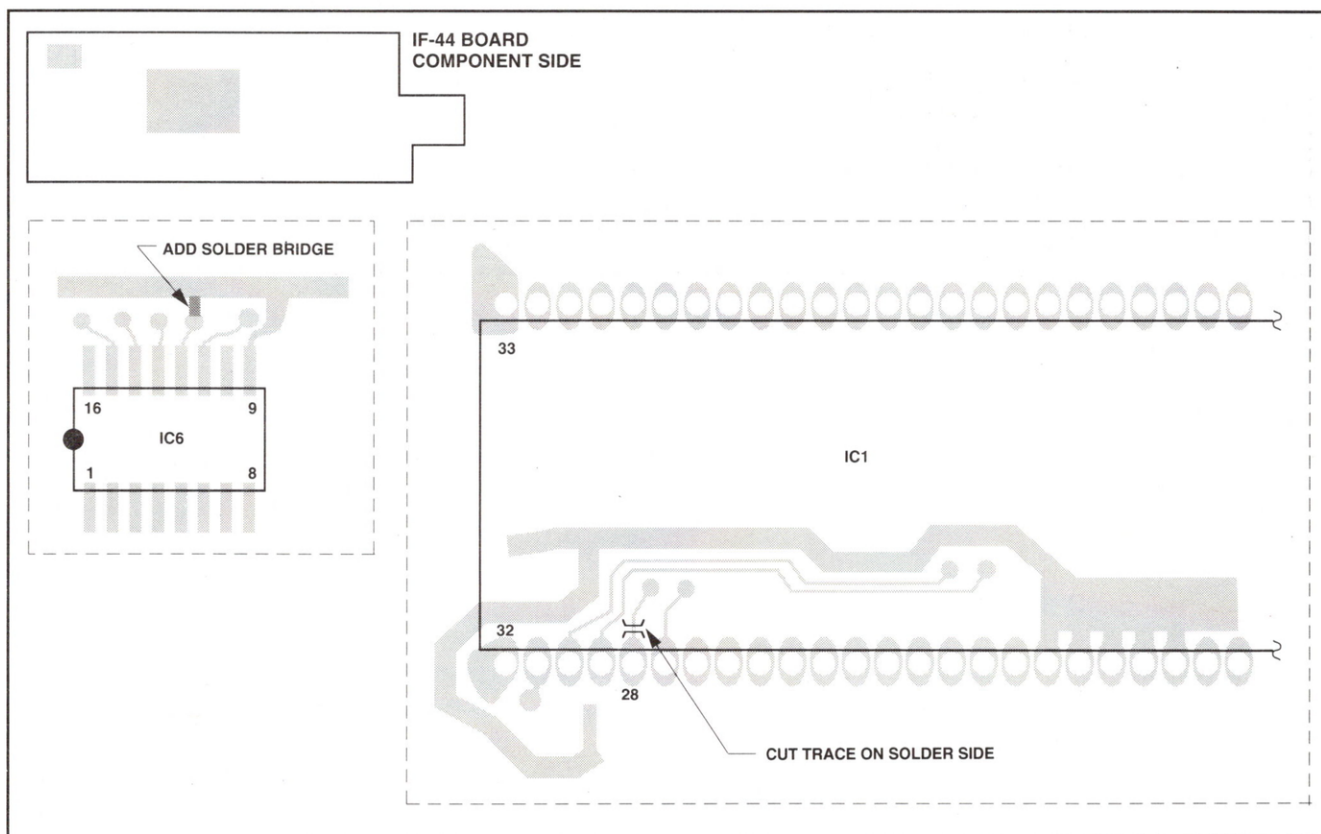


Figure 1

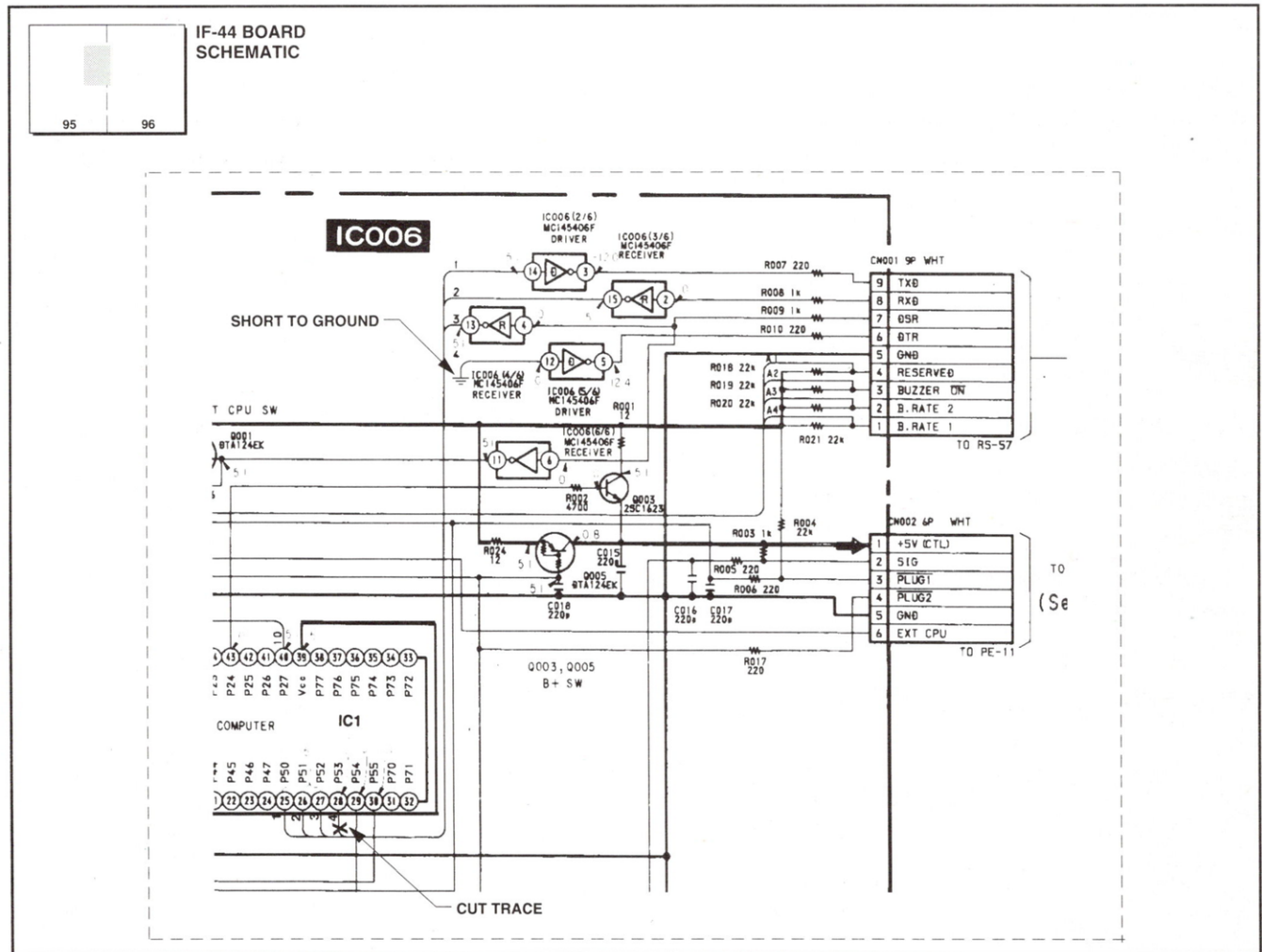


Figure 2

Camera

Date: December 14, 1992

Subject: DXF-40/40A TALLY LAMP DOES NOT TURN ON

Model: DXC-327A
DXK-327

Serial No: 10,001—10,910 (DXC-327A)
10,001—10,045 (DXK-327)

DESCRIPTION

When the DXF-40/40A is used, the tally lamp on the front side of the viewfinder does not turn on. To correct this condition, replace 1k Ω chip resistors R50 and R51 on the MB-413 board (solder side; zones I-2 and G-9, respectively) with 0 Ω chip resistors, as shown in Figures 1 and 2.

PARTS REQUIRED

Part No.	Description	Qty.
1-216-295-00	Res, Chip, 0 Ω , 5%, 1/10W	2

CONFIRMATION

Verify that tally lamp comes on during normal operation.

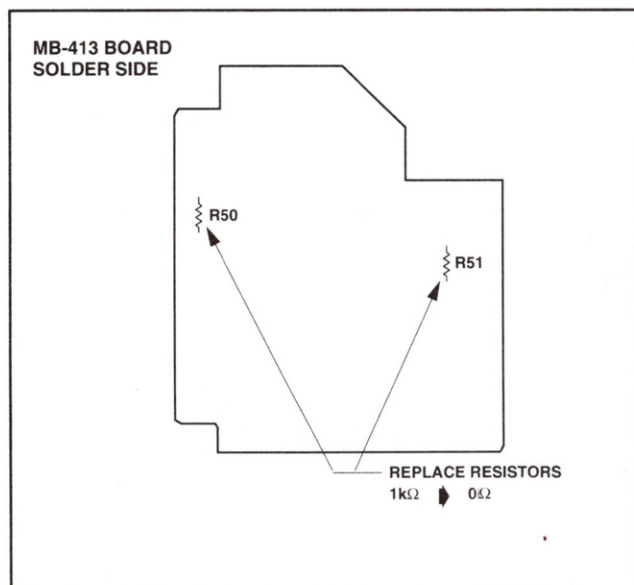


Figure 1

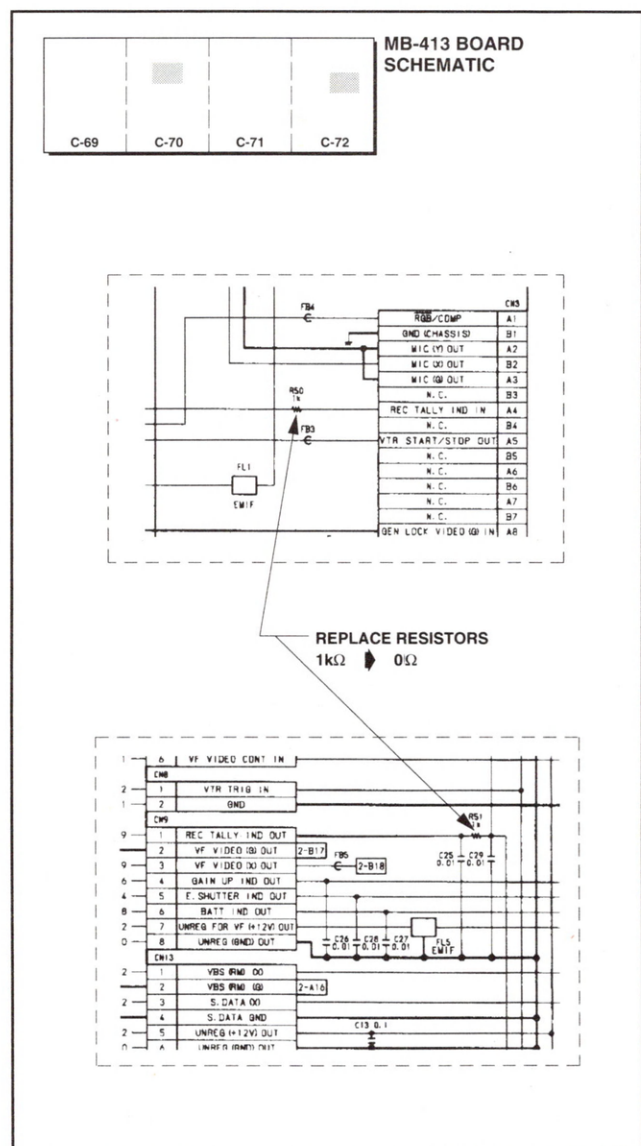


Figure 2

Display

Date: **December 14, 1992**

Model: **PC-1271**

Serial No: **100,001-100,890**

Subject: **LOSS OF SYNCHRONIZATION WHEN
TWO UNITS ARE CONNECTED IN
SERIES**

DESCRIPTION

When two PC-1271 units are connected in series, loss of picture synchronization may occur when a signal selection is made on the second unit. To correct this condition, perform the following modification procedure.

PARTS REQUIRED

Part No.	Description	Qty.
1-249-405-11	Cap, Elect, 10 μ F, 16V (C9, C10)	2
1-247-891-00	Res, Carbon, 100 Ω , 1/4W (R12, R13)	2
1-124-915-11	Res, Carbon, 330k Ω , 1/4W (R14, R15)	2

MODIFICATION

**A Board, Component Side
(See Figures 1 and 2.)**

1. Remove MONITOR OUT connector panel from rear of each unit by removing four screws. (See Figure 1.)
2. Remove the A board from each MONITOR OUT panel by removing the three screws shown in Figure 1.
3. Disconnect connectors J1 and J2 from each A board. (See Figure 2.)
4. Replace capacitors C9 and C10 with new 10 μ F electrolytic capacitors. (Note polarity.)

5. Replace resistors R12 and R13 with new 100 Ω carbon resistors.
6. Replace resistors R14 and R15 with new 330k Ω carbon resistors.
7. Reassemble parts removed in steps 1 through 3.

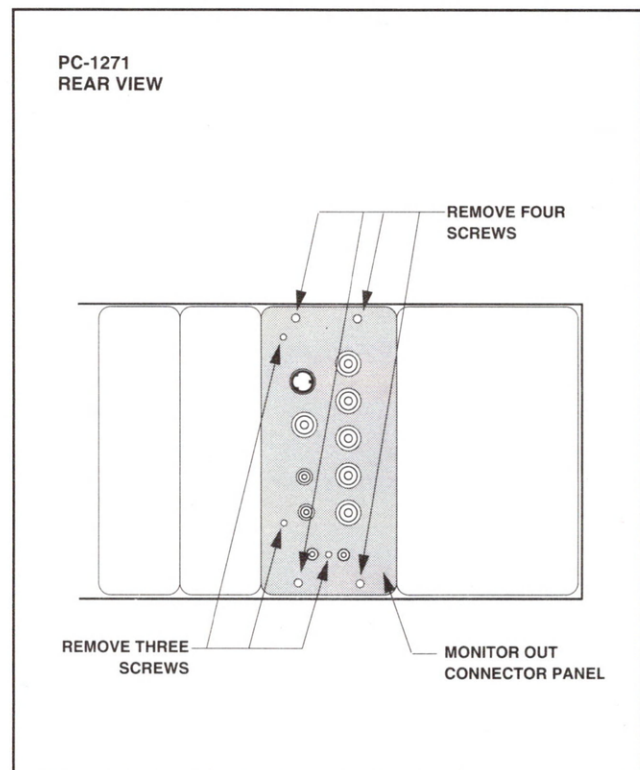


Figure 1

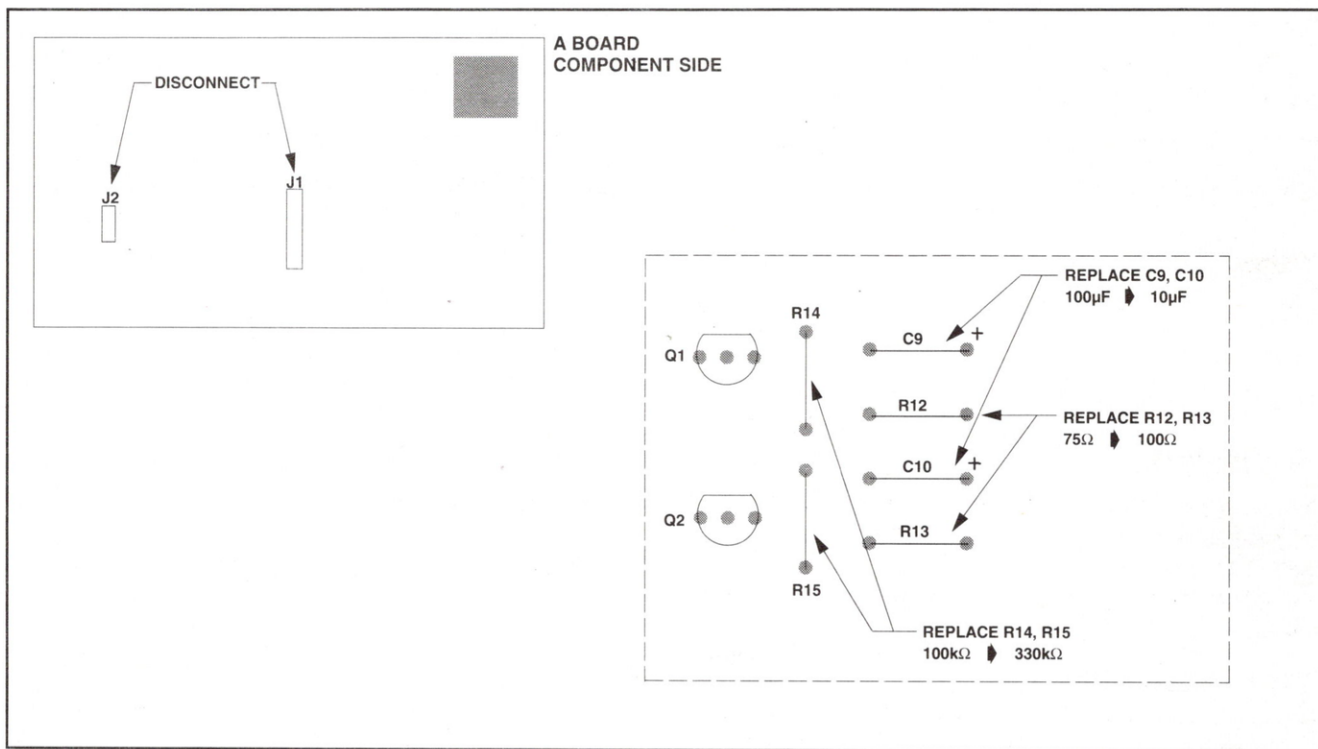


Figure 2

Videodisc

Date: **December 14, 1992**

Subject: **LASER BAR CODE II SPECIFICATION
IMPROVEMENT**

Model: **MDP-1100**

Serial No: **ALL**

DESCRIPTION

A new microcomputer is now available which meets Laser Bar Code II specifications. This microcomputer allows for step playback (FWD/REV) operation with CAV discs, and time/chapter search and time/segment playback operations with CLV discs.

To install the new microcomputer, replace IC001 on the IF-44 board.

PARTS REQUIRED

Part No.	Description	Qty.
8-759-084-57	HD6433258R19P	1

Display

Date: **December 28, 1992**

Subject: **IMPROVING PICTURE FOCUS**

Model: **VPH-1251Q/1271Q**

Serial No: **5,000,001–5,000,300 (VPH-1251Q)**
5,000,001–5,000,474 (VPH-1271Q)

DESCRIPTION

During video input, picture focus may become blurred at high signal levels. To improve picture focus, replace IC2 on the Y-board with firmware version 033 (part no. **8-759-084-10**).

NOTES:

- Some VPH-1251Q and VPH-1271Q units may already have been factory-modified.

- Firmware versions 032 and 033 cannot be used in VPH-1270 units.
- Version 033 firmware is factory installed in VPH-1251Q units with serial nos. 5,000,301 and higher, and in VPH-1271Q units with serial nos. 5,000,475 and higher.

VTR

Date: **December 28, 1992**

Subject: **MANUAL CORRECTION—SYSTEM
CONFIGURATION**

Model: **SVO-9600, SVP-9000**

Serial No: **ALL**

DESCRIPTION

Correct the SVO-9600 Service Manual and the SVP-9000 Service Manual as shown in Figure 1.

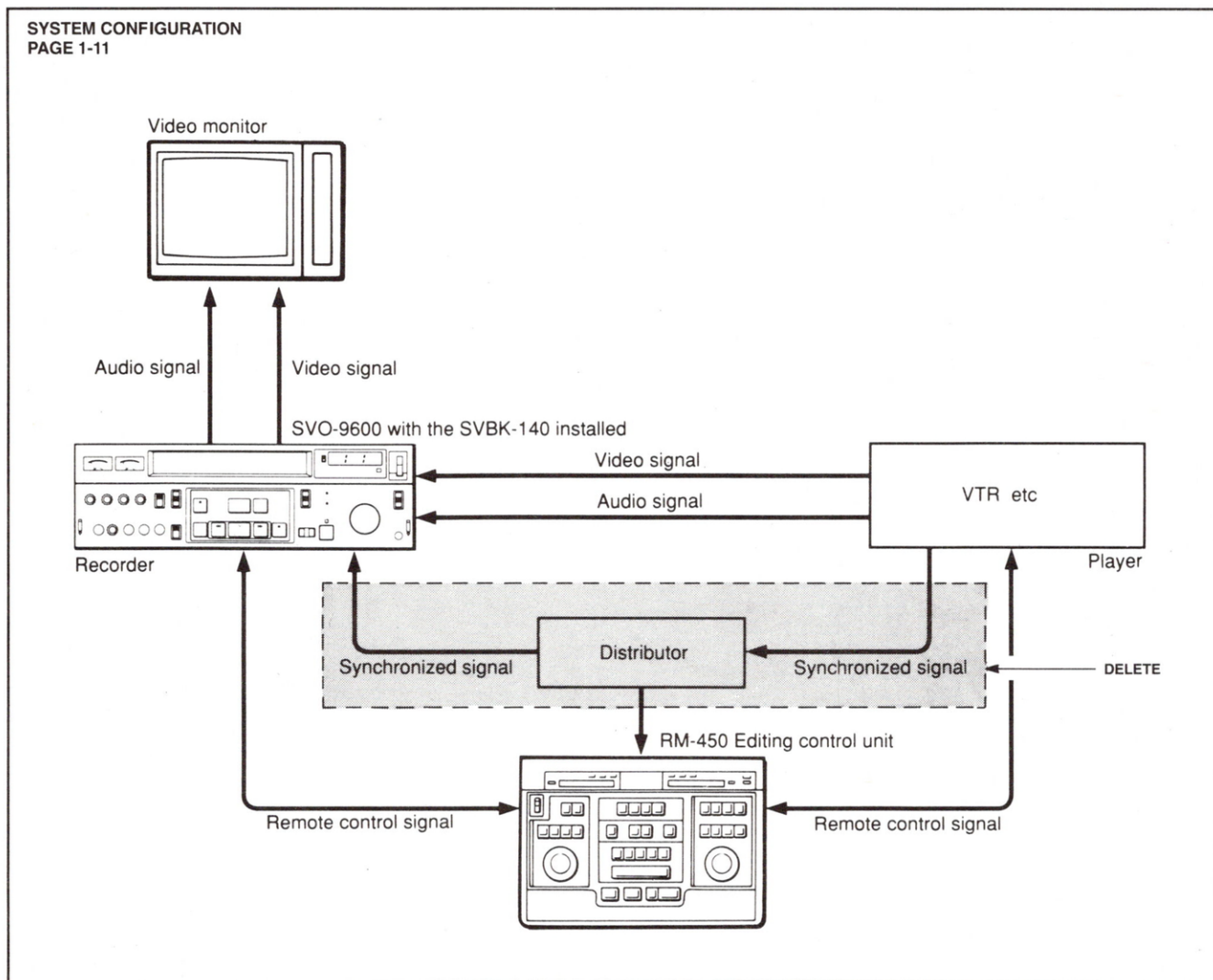


Figure 1

VTR

Date: **December 28, 1992**

Subject: **PCM AUDIO PLAYBACK PROBLEMS**

Model: **EVO-9850**

Serial No: **ALL**

DESCRIPTION

Some units may experience problems with PCM audio playback, including excess noise, distortion, or no playback at all. To correct these conditions, perform the following alignment procedures (see the EVO-9850 Service Manual, Volume 1).

9-15. PCM REC MASTER CLOCK FREQUENCY
ADJUSTMENT (page 9-10)

9-16. PCM PB MASTER CLOCK FREQUENCY
ADJUSTMENT (page 9-10)

9-17. PCM PB VCO FREQUENCY ADJUSTMENT
(page 9-11)

Videodisc

Date: **December 28, 1992**

Subject: **NEW VERSION MICROCOMPUTER**

Model: **MDP-1100**

Serial No: **ALL**

DESCRIPTION

Version 2.3 microcomputer is now available to correct the following conditions:

- Incorrect slow and slower operation (steps 1/1 through 1/3) when using Voyager Video Stack software;
- Machine entering video mute mode, with subsequent loss of picture (blue raster), when using LBS-1100;
- Failure to initialize when using VDI software.

To install the new microcomputer, replace IC001 on the IF-44 board.

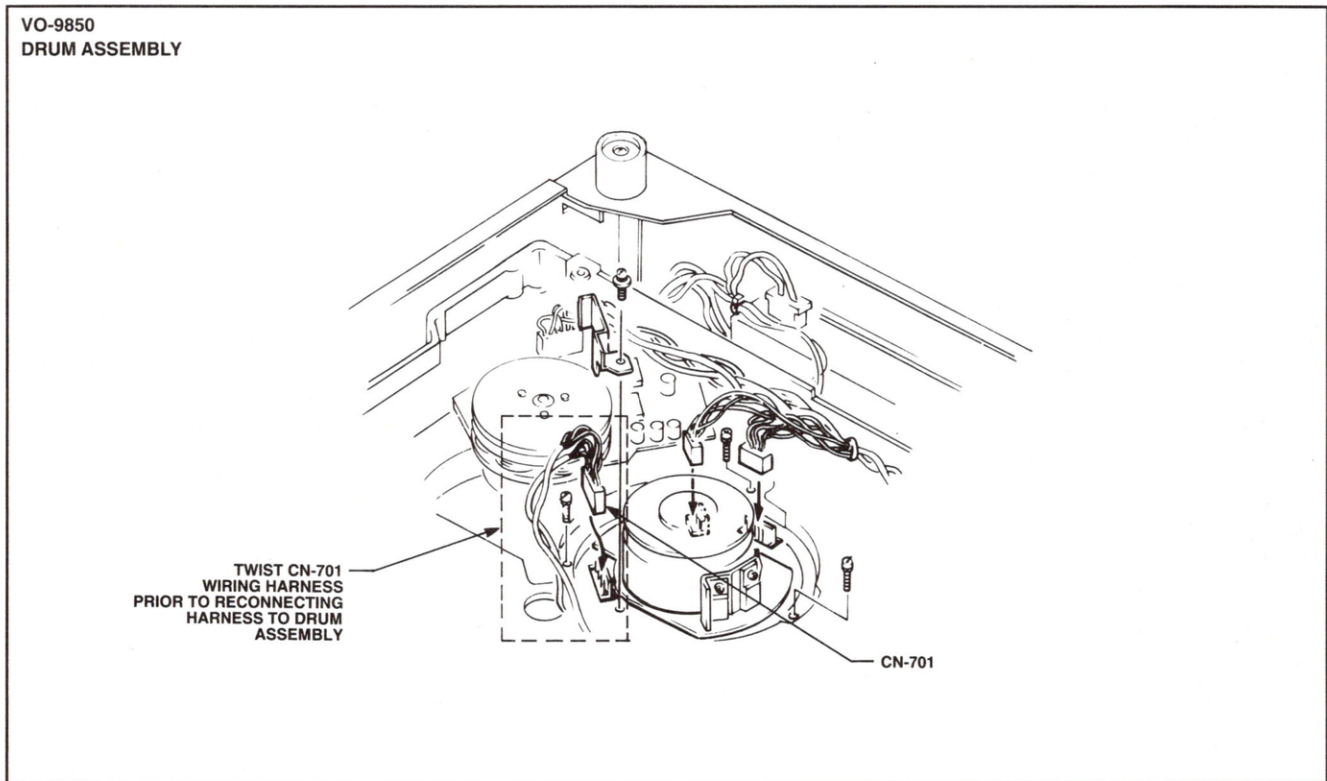
PARTS REQUIRED

Part No.	Description	Qty.
T-9985-507-1	HD6433258RV2.3P	1



VTRDate: **December 28, 1992**Subject: **CORRECTING DRUM SWITCHING NOISE**Model: **VO-9850**Serial No: **ALL****DESCRIPTION**

When the drum assembly is replaced, white dropouts or comet tailing with a burst type rainbow effect may be displayed sporadically in the picture, due to drum switching noise. To eliminate such noise, twist the wiring harness of connector CN-701 (white), shown in Figure 1, prior to reconnecting the harness to the drum assembly.

**Figure 1**

VTR

Date: **December 28, 1992**Model: **SVO-140/150/160**Serial No: **ALL**Subject: **BLUE SCREEN WHEN PLAYING
BACK COPY-GUARDED TAPES**

DESCRIPTION

When playing back some copy-guarded tapes on the above units, a blue screen may result. To correct this condition, replace IC-501 with a new IC-501 CPX-8064-239Q (part number **8-752-832-45**) on the respective MA board as shown in Table 1.

NOTE: For SVO-160 units, a DU-3 kit (part number A-6729-693-A) is also available. However, replacement of IC-501 has been shown to be more effective in correcting the condition described.

Table 1

Model	Board
SVO-140	MA-89 Board
SVO-150	MA-34 Board
SVO-160	MA-62 Board

VTR

Date: **December 28, 1992**

Subject: **SETTING EDITOR VTR CONSTANTS**

Model: **EVO-9850**

Serial No: **ALL**

DESCRIPTION

To set the RM-450 and BVE-600/900/910 editing system VTR constants for the above model, proceed as follows.

RM-450 VTR Constants (See Table 1.)

1. Set PREROLL to **5** seconds.
2. Set SYNCHRO to ON.
3. Execute LEARN function.
4. For synchronized editing, supply external sync signal to player, recorder, and to RM-450 unit.
5. Set SYSTEM PRESET.

BVE-600/900/910 VTR Constants (See Table 2.)

1. Set preroll duration to **5** seconds.
2. **BVE-600**—Set sync grade to **1** (ACCURATE).
3. **BVE-900/910**—Set sync grade to **F1** (ACCURATE).
4. Set VTR constants.

Table 1: RM-450 VTR Constant Data

Left Side		Right Side	
Bit	Setting	Bit	Setting
4	OFF	0	ON
7	OFF	1	ON
(Other bits, operator's choice)		2	OFF
		3	OFF
		4	ON (OFF for CTL-based edit)
		5	OFF
		6	(operator's choice)
		7	OFF

Table 2: BVE-600/900/910 VTR Constant Data

VTR	BLOCK-1 BYTE								BLOCK-2 BYTE						
	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7
EVO-9850	80	0C	00	96	05	05	07	80	0A	06	FC	00	00	5A	0A

VTR

Date: **December 28, 1992**

Subject: **SETTING EDITOR VTR CONSTANTS**

Model: **SVO-9600, SVP-9000**

Serial No: **ALL**

DESCRIPTION

To set the RM-450 and BVE-600/900/910 editing system VTR constants for the above models, proceed as follows.

RM-450 VTR Constants (See Table 1.)

1. Set PREROLL to **5** seconds.
2. Set SYNCHRO to **ON**.
3. Execute LEARN function.
4. For synchronized editing, supply external sync signal to player, recorder, and to RM-450 unit.
5. Set SYSTEM PRESET.

BVE-600/900/910 VTR Constants (See Table 2.)

1. Set preroll duration to **5** seconds.
2. **BVE-600**—Set sync grade to **1** (ACCURATE).
3. **BVE-900/910**—Set sync grade to **F1** (ACCURATE).
4. Set VTR constants.

Table 1: RM-450 VTR Constant Data

Bit	Left Side Setting	Bit	Right Side Setting
4	OFF	0	OFF
7	OFF	1	ON
(Other bits, operator's choice)		2	ON
		3	OFF
		4	ON
		5	OFF
		6	(operator's choice)
		7	OFF

Table 2: BVE-600/900/910 VTR Constant Data

VTR	BLOCK-1 BYTE								BLOCK-2 BYTE						
	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7
SVO-9600	10	2C	00	96	08	08	05	8A	0A	04	FF	00	00	78	0A
SVP-9000	10	28	00	96	08	08	05	8A	0A	04	FF	00	00	78	0A